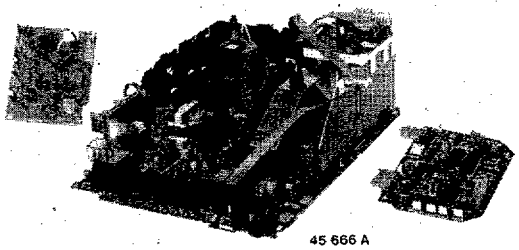
# PHILIPS 21PT442A

MODEL

SERVICE MANUAL

Service
Service
Service


45 666 A

# Service Manual

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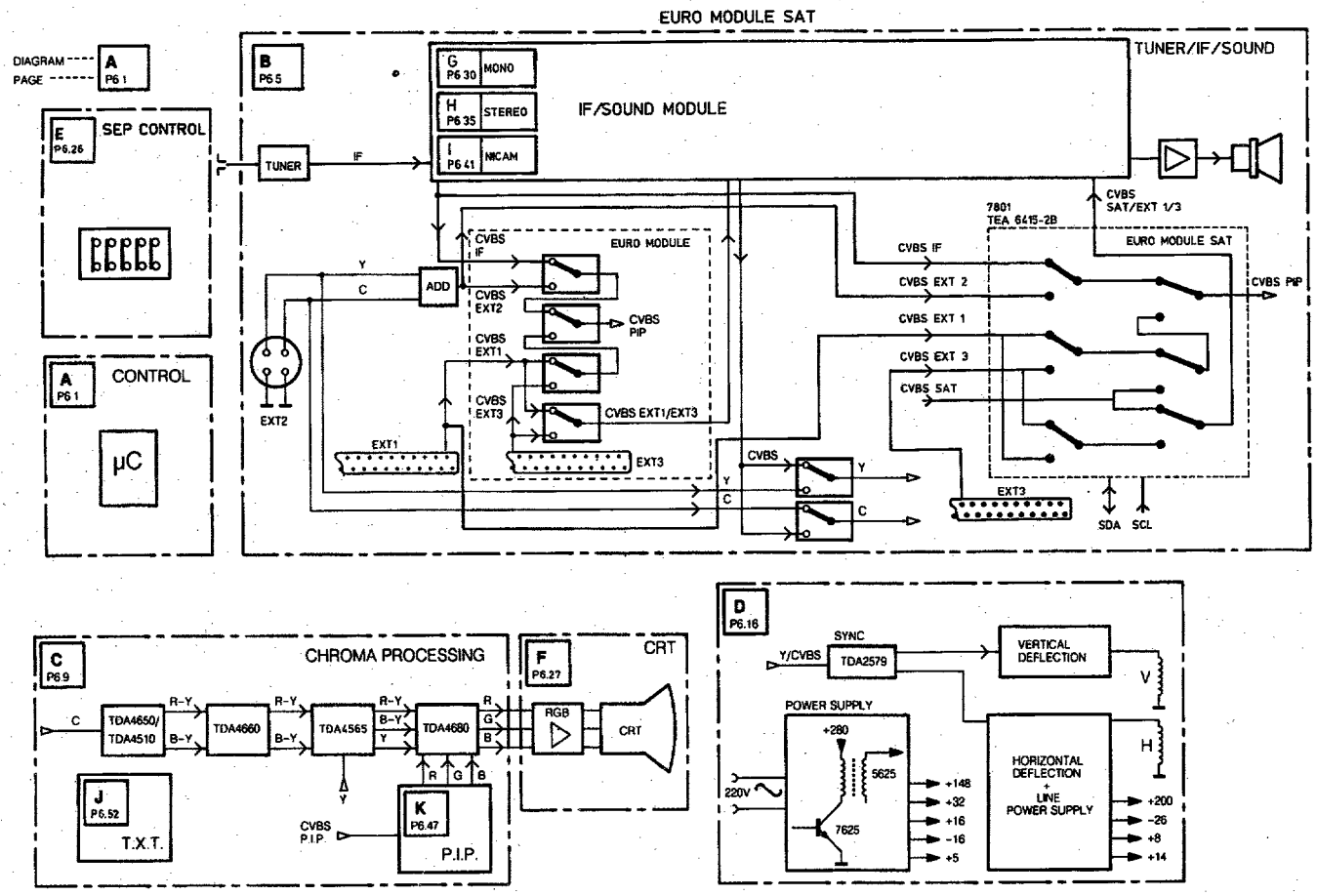
# Block diagram




# Technical specification

| | |
|---|---|
| Mains voltag | :220 - 240 V (± 10%) |
| Mains frequency | :50 Hz (± 10%) |
| Aerial input impedance | :75Ω - coax |
| Minimum aerial voltage | :40μV |
| Maximum aerial voltage | :32mV |
| Pull-in range colour synchronization | : ± 300Hz |
| Pull-in range horizontal synchronization | : ± 300Hz |

**Local operation functions:**

P +; P -; ◿ +; ◿ -; install

Programmes: 0-59
VCR operation on programmes: 0-59

**Indications:**

- On Screen Display (OSD)

- LED: - standby (red)
  - operation (green)
  - RC5 reception (flashing yellow)
  - internal fault in μP (flashing)

# Errata

| DIAGRAM: SCHALTBILD: | LOCATION: POSITION: | CORRECTION: KORREKTUR: | |
|---|---|---|---|
| (Page/ Seite): | | Present situation: Vorliegende Situation: | Corrected situation: Korrekte Situation: |
| B (6.6) | C20 | Item number R3386<br>Positionsnummer R3386 | Item number R3886<br>Positionsnummer R3886 |
| B (6.7) | O24 | Connecting line reference E58<br>Verbindungsleitung Ref. E58 | Connecting line reference D58<br>Verbindungsleitung Ref. D58 |
| B (6.6) | B14 | Connecting line reference A21<br>Verbindungsleitung Ref. A21 | Connecting line reference D21<br>Verbindungsleitung Ref. D21 |
| C (6.11) | K24 | C2366 | Delete C2366<br>C2366 entfernen |
| C (6.11) | N15<br><br>N16 | Circuitry with TS7372<br><br>Circuitry with TS7374<br><br>Schaltung mit TS7322<br><br>Schaltung mit TS7374 | Delete R3394, TS7372 and short circuit e-c TS7372<br>Delete R3395, TS7374 and short circuit e-c TS7374<br>R3394. TS7372 entfernen und Stromkreis e-c TS7372 kurzschließen<br>R3305, TS7374 entfernen und Stromkreis e-c TS7374 kurzschließen |
| D (6.17) | E17 | | Add R3537 100kΩ (4822 116 52234) in series with R3539<br>R3537 100kΩ (4822 116 52234) in Reihe mit R3539 schalten |
| D (6.16) | A2 | Connecting line reference B40<br>Verbindungsleitung Ref. B40 | Connecting line reference B21<br>Verbindungsleitung Ref. B21 |
| F (6.27/6.28) | D10 | cD6301 connected to cTS7305<br>cD6331 connected to cTS7335<br>cD6361 connected to cTS7356<br>cD6302 verbunden mit cTS7305<br>cD6331 verbunden mit cTS7335<br>cD6361 verbunden mit cTS7356 | cD6301 connected to bTS7305<br>cD6331 connected to bTS7335<br>cD6361 connected to bTS7356<br>cD6301 verbunden mit bTS7305<br>cD6331 verbunden mit bTS7335<br>cD6361 verbunden mit bTS7356 |
| PWB mono carrier/Leiterplatte Monoträger (6.20) | F2 | S5561 | S5661 |
| Spare parts list/ Stückliste (10.4) | | 6648-4822 130 34488-BZX79/F12 | 6648-4822 130 34197-BZX79/B12 |

## Electrical adjustments/Electrische Abgleicharbeiten

Adapted Vg2, white drive, white limiter and cut-off settings: see service information GR2.2 93.02
Angepaßte Einstelungen für Vg2, Weißabgleich, Weißspitzenbegrenzung und Sperrpunktabgleich: siehe Service Information GR2.2 93.02

**Turn page/Bitte wenden**

# Modifications during production/Änderungen während der Herstellung

* Modified line output transformer T5545: see of point 1 of service information GR2.2 93.01
* Modifizierter Zeilenausgangstransformator T5545: siehe Punkt 1 der Service-Information GR2.2 93.01

* Modified CRT panel: see points 2 and 3 of service information GR2.2 93.01
* Modifizierte CRT-Platine: siehe Punkt 2 und 3 der Service-Information GR2.2 93.01

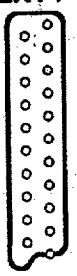
* Modified TXT module: see service information GR2.2 93.03
* Modifiziertes Videtext-Modul: siehe Service-Information GR2.2 93.03

* Modified IF module: see service information GR2.2 94.01
* Modifiziertes ZF-Modul: siehe Service-Information GR2.2 94.01

# Connection facilities

## 1. Specification of the terminal sockets

### EXT1



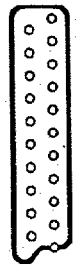
1 - Audio ⊖ R (0,5$V_{RMS}$ ≤ 1kΩ)
2 - Audio ⊖ R (0,2 - 2$V_{RMS}$; 0,5 $V_{nom}$; ≥ 10kΩ)
3 - Audio ⊖ L (0,5$V_{RMS}$ ≤ 1kΩ)
4 - Audio ⊥
5 - Blue ⊥
6 - Audio ⊖ L (0,2 - 2$V_{RMS}$; 0,5 $V_{nom}$; ≥ 10kΩ)
7 - Blue ⊖ (0,7$V_{pp}$/75Ω)
8 - RC5 ⊖ (500-800m$V_{pp}$) + CVBS-Status 1 ⊖ (0-2V: int.; 9,5-12V: ext.)
9 - Green ⊥
10 - -
11 - Green ⊖ (0,7$V_{pp}$; 75Ω)
12 - -
13 - Red ⊥
14 - -
15 - Red ⊖ (0,7$V_{pp}$; 75Ω)
16 - RGB-Status (0-0,4V: int. 1-3V ext. 75Ω)
17 - CVBS ⊖ ⊥
18 - CVBS ⊖ ⊥
19 - CVBS ⊖ (1$V_{pp}$/75Ω)
20 - CVBS ⊖ (1$V_{pp}$/75Ω)
21 - Earth screen

### EXT2

1 - ⊥
2 - ⊥
3 - Y ⊖ (1$V_{pp}$; 75Ω)
4 - C ⊖ (1$V_{pp}$; 75Ω)

2x ◎ CINCH Audio ⊖ L+R (0,2-2$V_{RMS}$; 0,5 $V_{nom}$ ≥ 10kΩ)

### EXT3



1 - Audio ⊖ R (0,5$V_{RMS}$; ≤ 1kΩ)
2 - Audio ⊖ R (0,2 - 2$V_{RMS}$; 0,5 $V_{nom}$; ≥ 10kΩ)
3 - Audio ⊖ L (0,5$V_{RMS}$; ≤ 1kΩ)
4 - Audio ⊥
5 -
6 - Audio ⊖ L (0,2 - 2$V_{RMS}$; 0,5 $V_{nom}$; ≥ 10kΩ)
7 - -
8 - CVBS status 3 ⊖ (0-2V: int.; 9,5-12V: ext.)
9 - -
10 - -
11 - -
12 - -
13 - -
14 - -
15 - -
16 - -
17 - CVBS ⊖ ⊥
18 - CVBS ⊖ ⊥
19 - CVBS ⊖ (1$V_{pp}$/75Ω)
20 - CVBS ⊖ (1$V_{pp}$/75Ω)
21 - Earth screen

### Audio out

2x ◎ CINCH Audio ⊖ L+R (0,5$V_{RMS}$; ≤ 1kΩ)

### Front

◎ 3.5mm ≥ 8Ω

## 2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.2 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

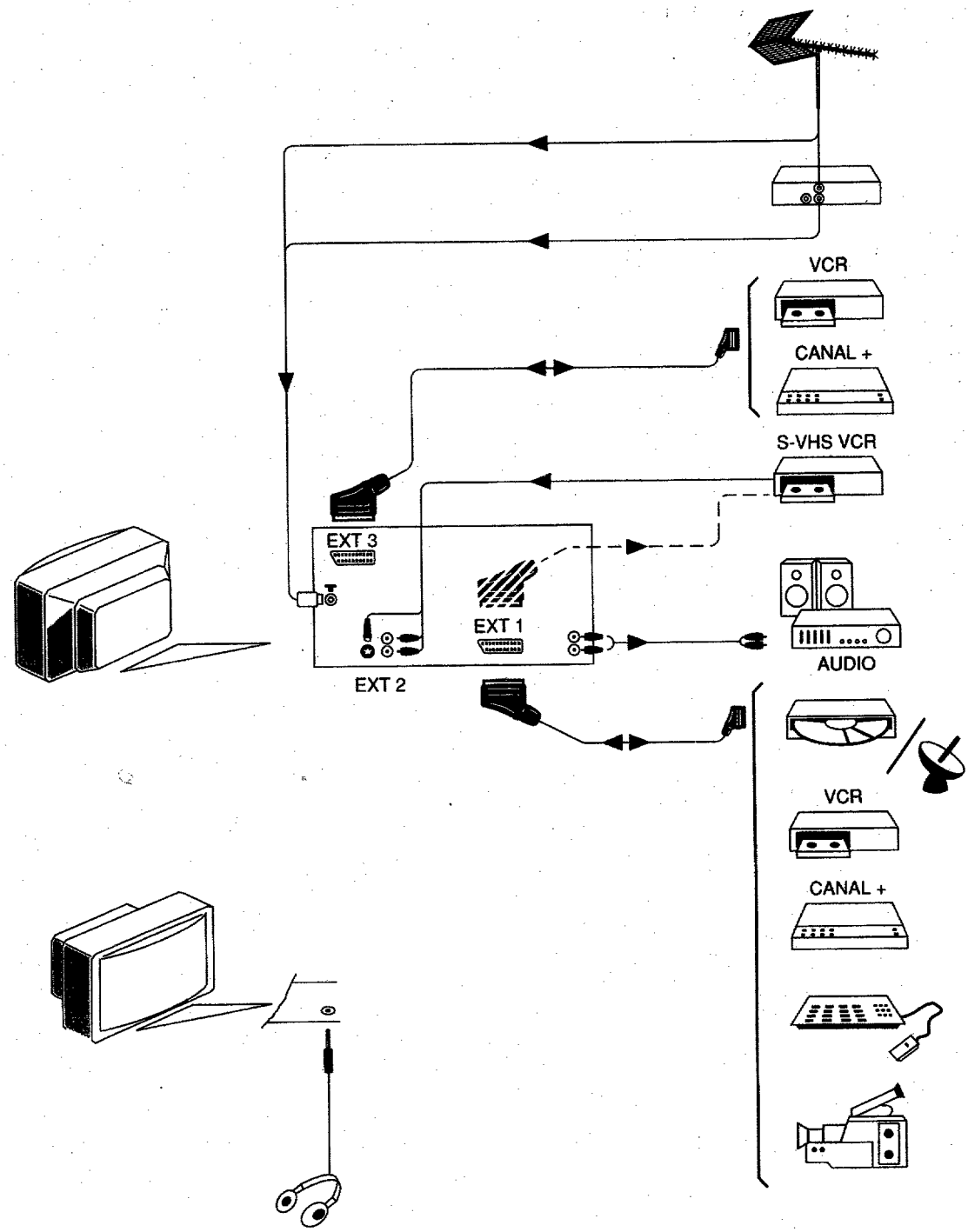



Fig. 2.1

# Mechanical instructions

## 1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath **and possibly under the EXT 3 connection** (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

## 2. Service position 1

Service position for module service and to measure test points
Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

## 3. Service position 2

Service position for repair
Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
**Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!**

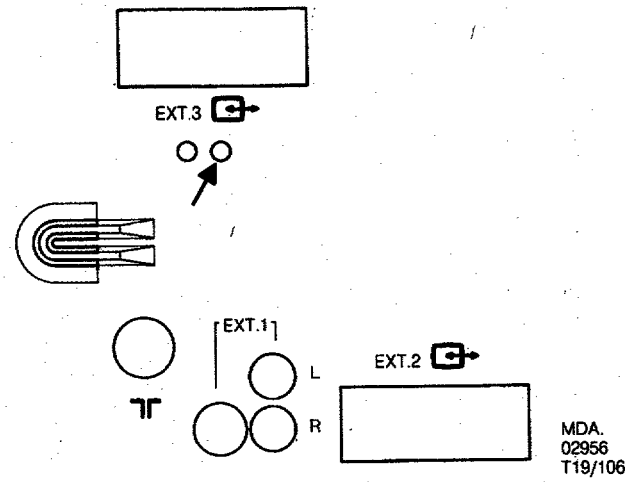



**Fig. 4.1**

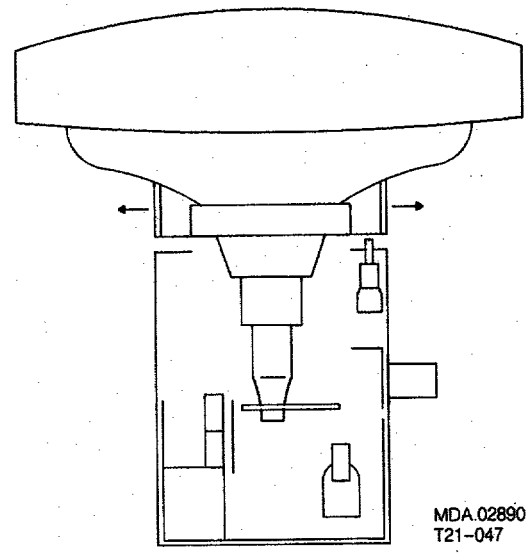



**Fig. 4.2**

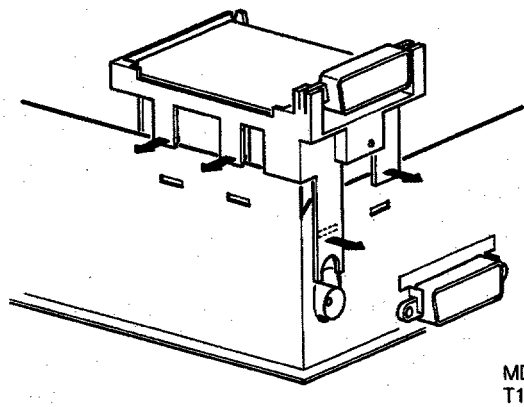



**Fig. 4.3**

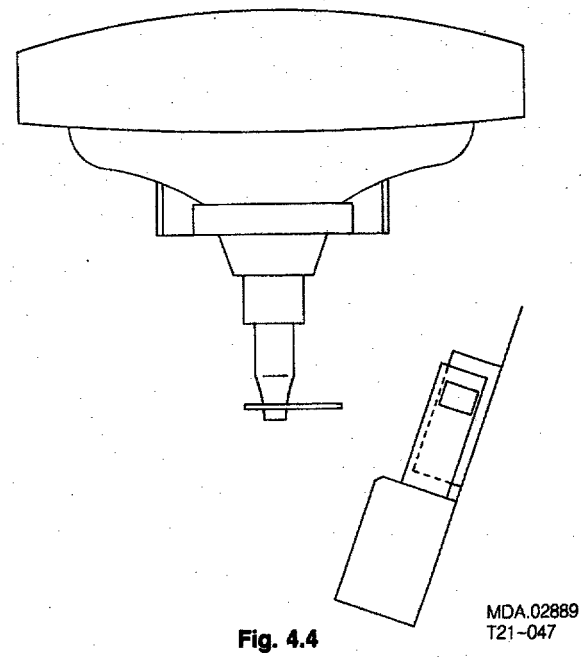



**Fig. 4.4**

# Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. ESD

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
    **The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.**

11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

# Notes

1. The cold chassis direct voltages and oscillograms should be measured with regard to the tuner earth (⊥). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to (⏚).

2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).

3. Where necessary, the oscillograms and direct voltages are measured with (⊓) and without aerial signal(⊼). Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏻). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
   The order numbers of these extension cards are:
   * 6 times: 4822 395 30259
   * 8 times: 4822 214 31402

8. Both multisystem and single system units are mentioned in this documentation.
   The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
   A multi-system set for Eastern-Europa is suitable for the reception of the PAL/SECAM BGDK systems. The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).

9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

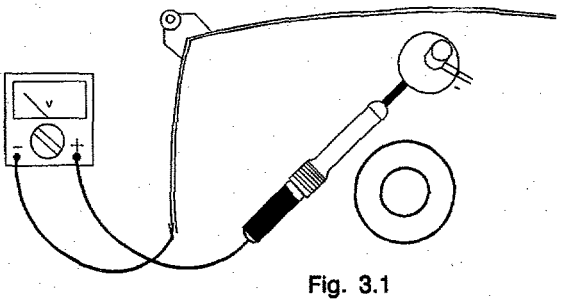
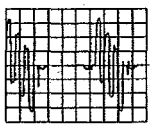


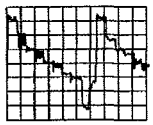
Fig. 3.1

# Oscillogrammes / Oszillogramme / Oscillogrammes

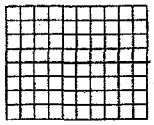




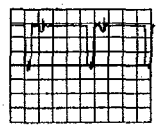
TP 1
0,2 V/div AC
20 µS/div



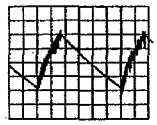
TP 8
50 mV/div AC
10 µS/div



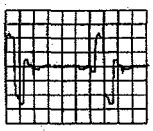
TP 14 ⏱
0,2 V/div DC
0,5 mS/div



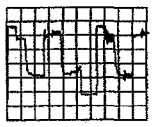
TP 21
0,5 V/div DC
5 µS/div



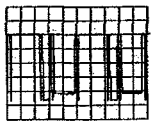
TP 26 ⏱
0,1 V/div AC
5 mS/div



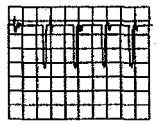
TP 2
0,2 V/div AC
20 µS/div



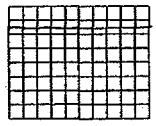
TP 9
0,5 V/div AC
10 µS/div



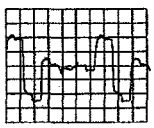
TP 15
1 V/div AC
0,2 mS/div



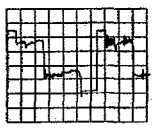
TP 21 ⏱
0,5 V/div DC
10 µS/div



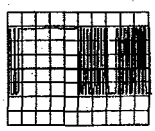
TP 27
1 V/div DC



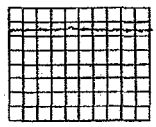
TP 3
0,2 V/div AC
10 µS/div



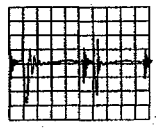
TP 10
0,5 V/div AC
10 µS/div



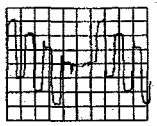
TP 16
1 V/div DC
0,1 mS/div



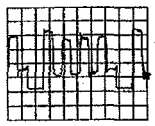
TP 22
1 V/div DC



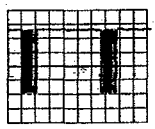
TP 27 ⏱
50 mV/div AC
10 mS/div



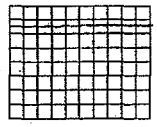
TP 4
0,2 V/div AC
10 µS/div



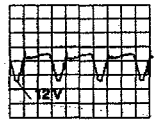
TP 11
0,5 V/div AC
10 µS/div



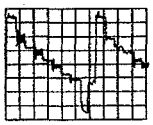
TP 17
1 V/div DC
20 mS/div



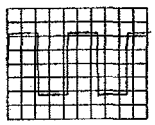
TP 23
1 V/div DC



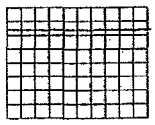

TP 28
0,5 V/div AC
5 µS/div



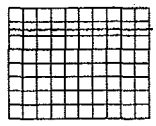
TP 5
0,1 V/div AC
10 µS/div



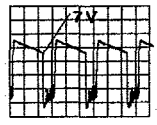
TP 12
1 V/div AC
10 µS/div



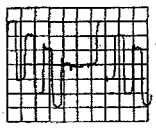
TP 18
2 V/div DC
20 mS/div



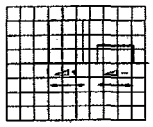
TP 24
5V/div DC



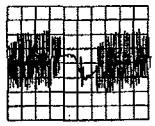

TP 28 ⏱
1 /div AC
10 mS/div



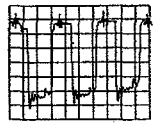
TP 6
0,2 V/div AC
10 µS/div



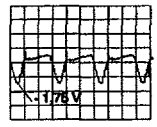
TP 13
1 V/div DC
1 S/div



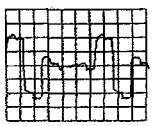
TP 19
50 mV/div AC
10 µS/div



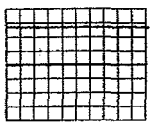
TP 25
0,2 V/div AC
5 µS/div



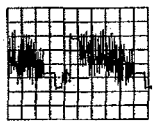

TP 29
0,5 V/div AC
5 µS/div



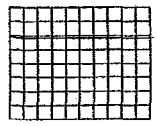
TP 7
0,2 V/div AC
10 µS/div



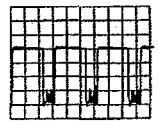
TP 14
1 V/div DC
0,5 mS/div



TP 20
0,5 V/div AC
10 µS/div

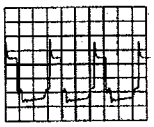


TP 26
1 V/div DC

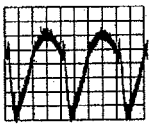


TP 29 ⏱
1 V/div AC
10 mS/div

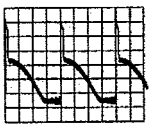
# Oscillogrammes / Oszillogramme / Oscillogrammes



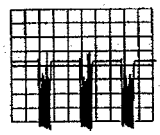
TP 30
2 V/div DC
5 µS/div



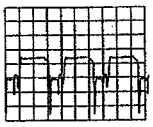
TP 36
0,2 V/div AC
5 mS/div



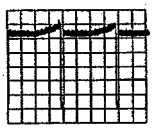
TP 41 b
5 V/div AC
5 mS/div



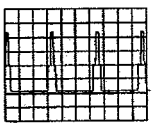
TP 30 ⏱
1 V/div DC
10 mS/div



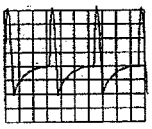
TP 37
2 V/div AC
20 µS/div



TP 41 c
0,1 V/div AC
5 mS/div

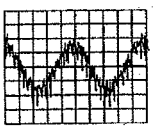


TP 31
2 V/div DC
20 µS/div

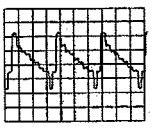


TP 38
20 mV/div AC
20 µS/div

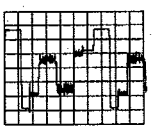
TP 41 d
5 V/div AC
5 mS/div



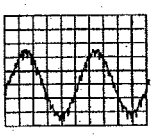
TP 32
50 mV/div DC
0,2 mS/div



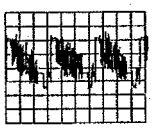
TP 39
0,2 V/div AC
20 µS/div



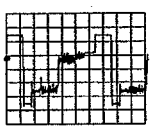
TP 51
130 $V_{pp}$
115 $V_{pp}$ for 21"



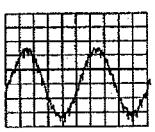
TP 33
2 V/div DC
0,2 mS/div



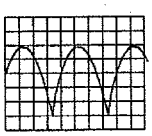
TP 40
0,5 V/div AC
20 µS/div



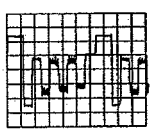
TP 52
120 $V_{pp}$
115 $V_{pp}$ for 21"



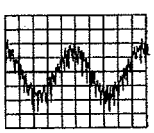
TP 34
2 V/div DC
20 µS/div



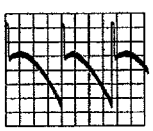
TP 41
2 V/div AC
5 mS/div



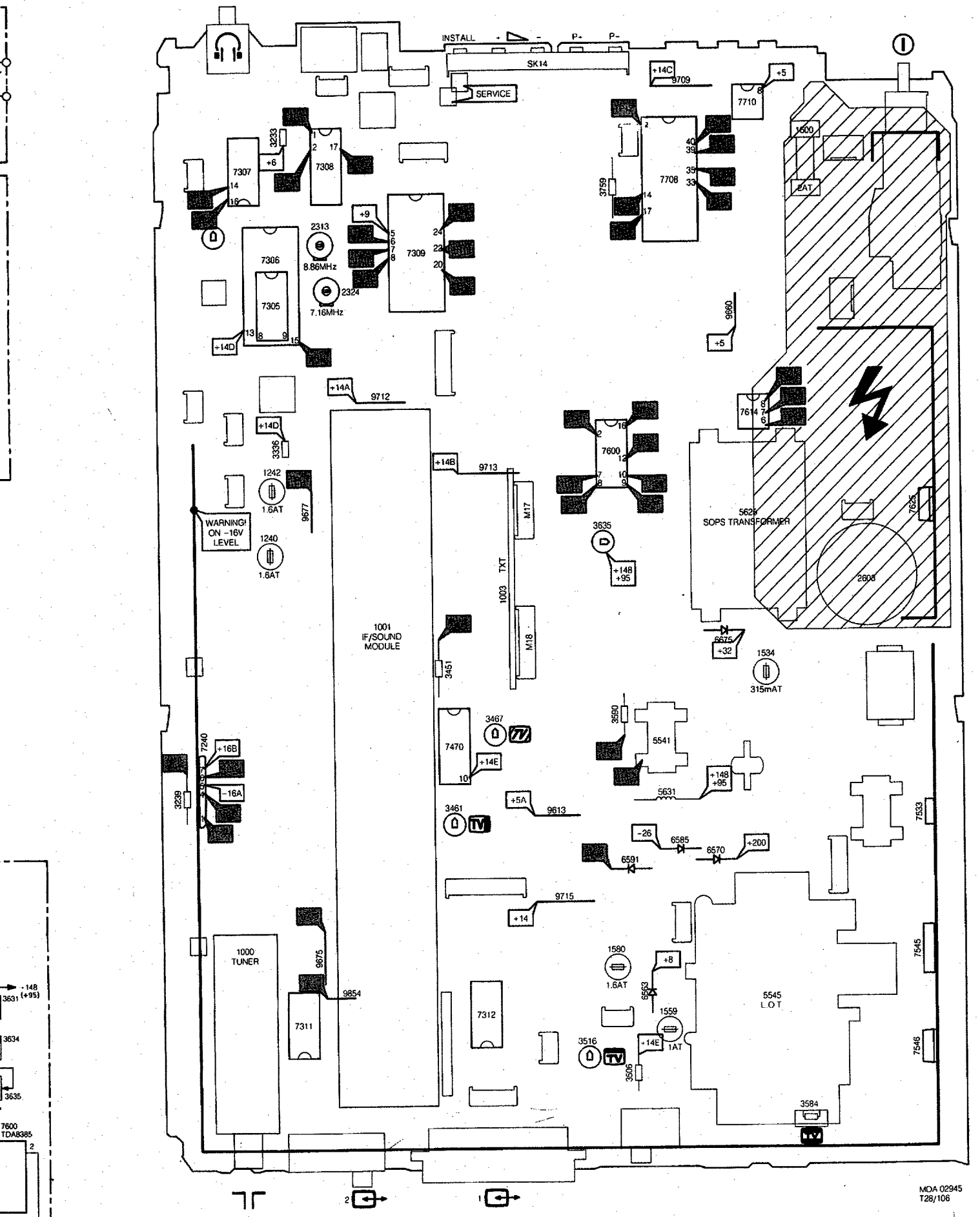
TP 53
120 $V_{pp}$
110 $V_{pp}$ for 21"

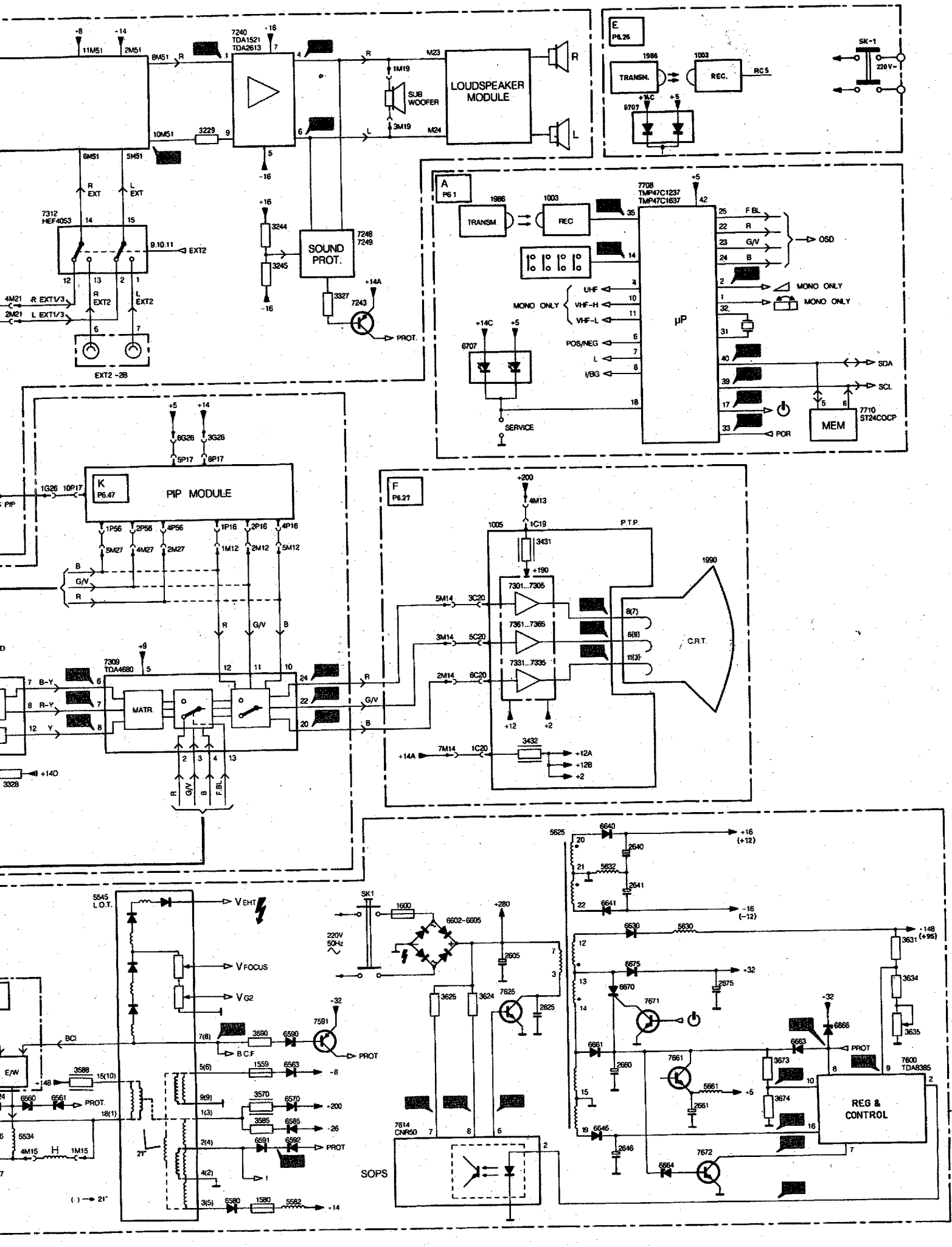


TP 35
50 mV/div DC
0,2 mS/div



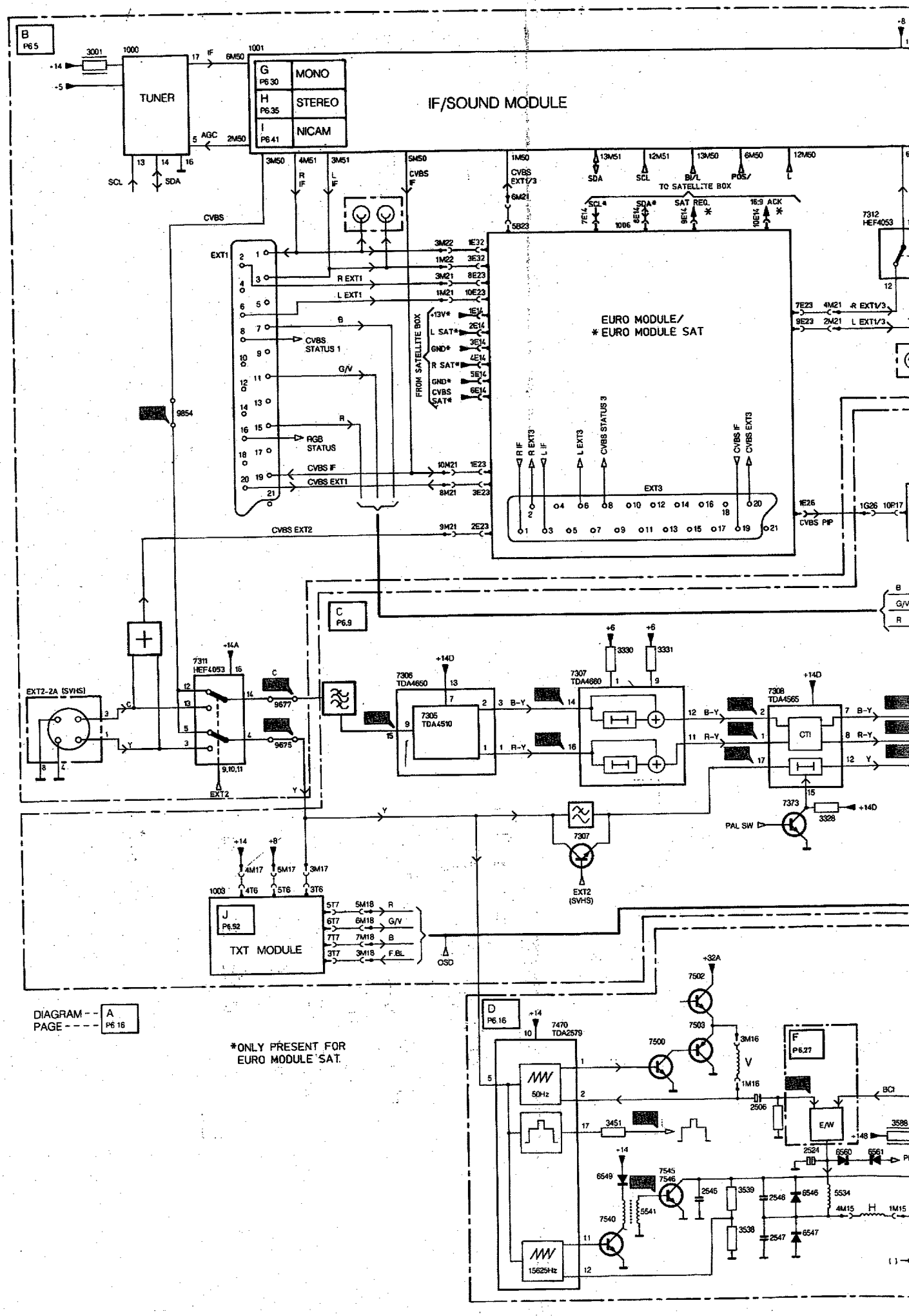
TP 41 a
5 V/div AC
5 mS/div

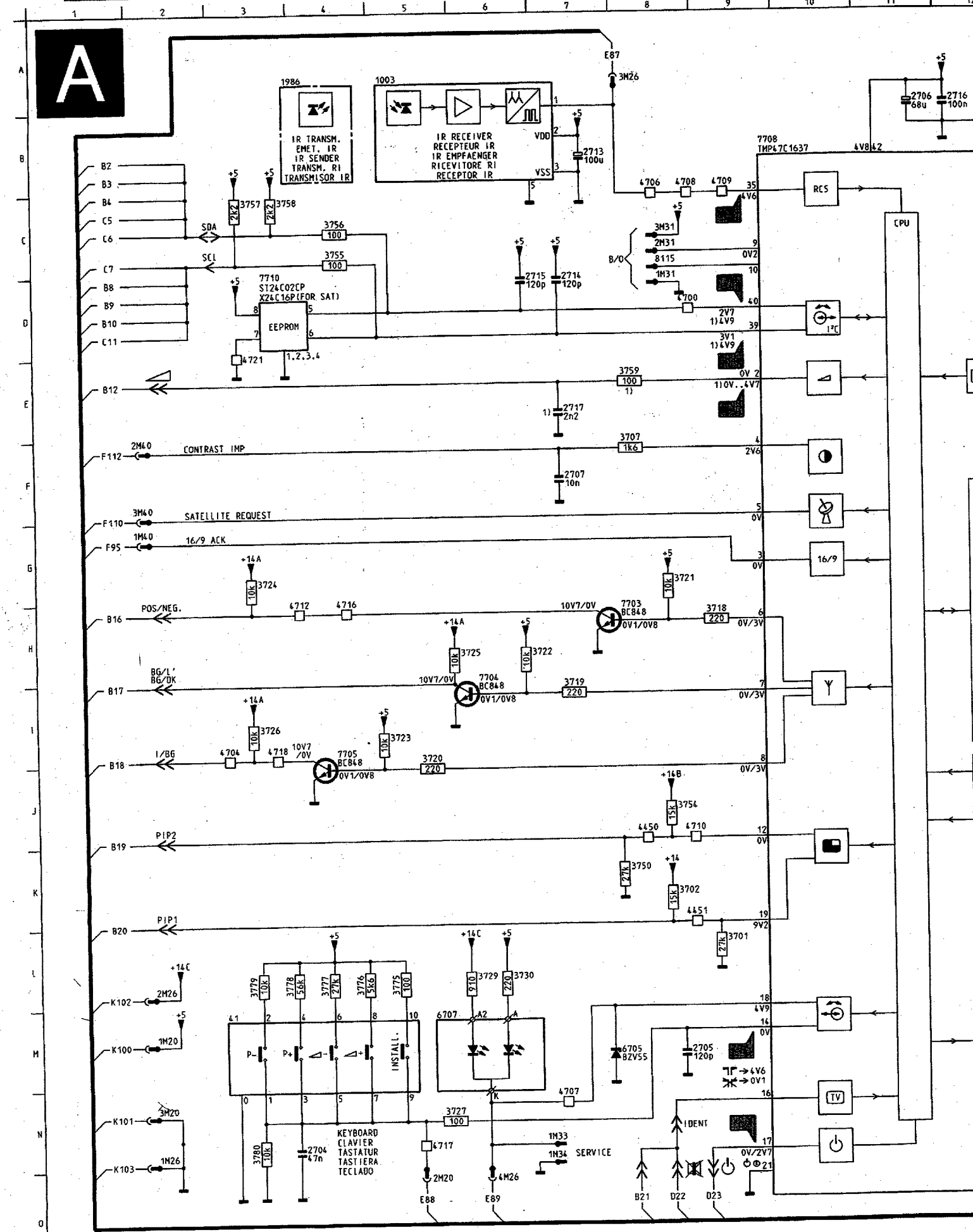

INSTALL
SK14
SERVICE
P+
P-
+14C
9709
+5
7710
1500
BAT
7307
+6
3233
7308
3759
7708
+9
7309
2313
8.86MHz
2324
7.16MHz
7306
7305
+14D
9660
+14A
9712
3336
1242
1.6AT
9677
WARNING!
ON -16V
LEVEL
1240
1.6AT
+14B
9713
7600
7614
5625
SOPS TRANSFORMER
2608
7625
M17
M18
1003 TXT
3635
+14B
+9S
1001
IF/SOUND
MODULE
3451
6675
+32
1534
315mAT
3467
7470
+14E
3590
5541
+14B
+9S
5631
7240
+16B
-16A
3239
3461
+5A
9613
-26
6585
6570
+200
6591
7533
9715
+14
1000
TUNER
9675
9854
7311
7312
1580
1.6AT
+8
6563
1559
1AT
3516
+14E
3506
5545
L.O.T
7545
7546
3584
2
1
MDA 02945
T28/106

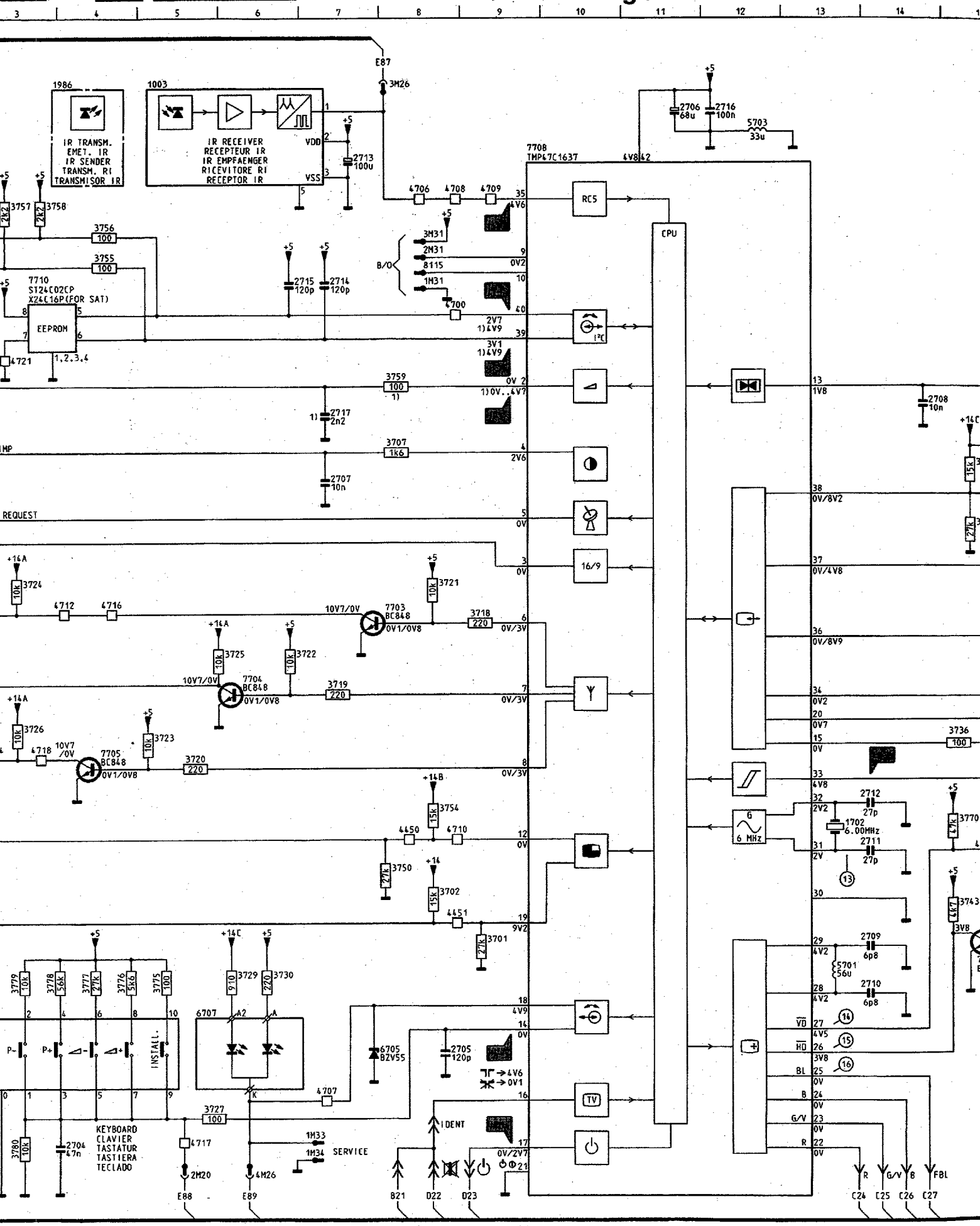

LOUDSPEAKER MODULE
SUB WOOFER
SOUND PROT.
TRANSM.
REC.
RC5
SK-1
220V~
μP
OSD
MONO ONLY
SDA
SCL
MEM
SERVICE
POR
PIP MODULE
MATR.
C.R.T.
P.T.P.
REG & CONTROL
SOPS
PROT.
VEHT
VFOCUS
VG2
B.C.I
B.C.F

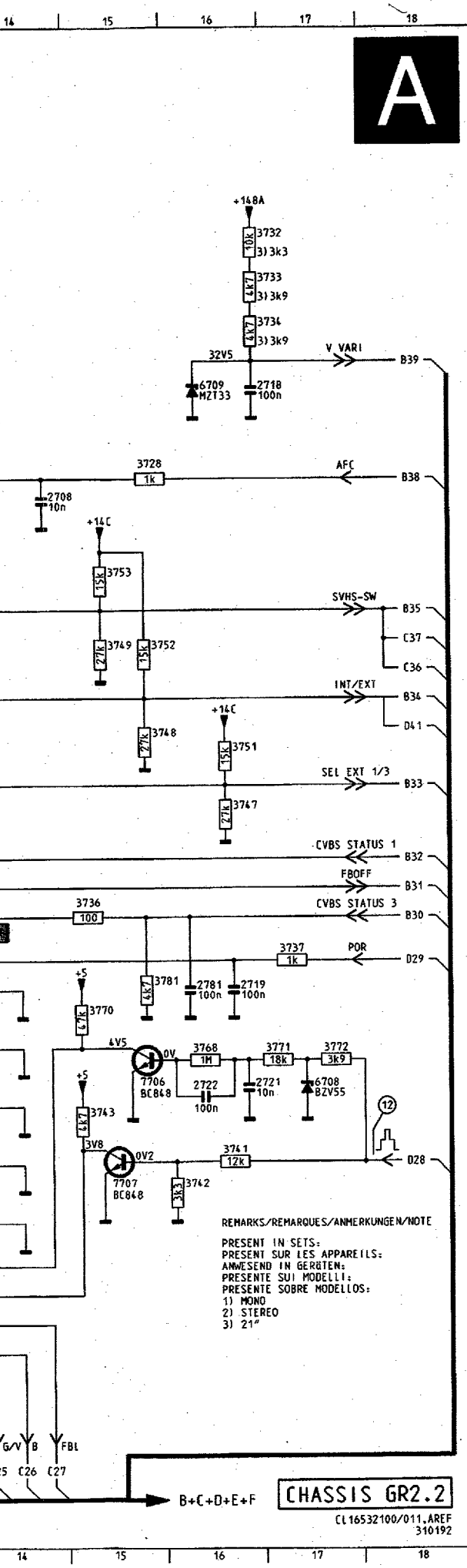
# Blockdiagram / Blockschaltbild / Schéma-bloc






A
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
7708
TMP47C1637
CPU
RCS
I²C
7710
ST24C02CP
X24C16P(FOR SAT)
EEPROM
CONTRAST IMP
SATELLITE REQUEST
16/9 ACK
POS./NEG.
BG/L'
BG/DK
I/BG
PIP2
PIP1
SDA
SCL
B/O
IDENT
SERVICE
TV
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
INSTALL.


1986
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
1003
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
VDD
VSS
E87
3M26
2713 100u
7708
TMP47C1637
4V8/42
RC5
CPU
2706 68u
2716 100n
5703 33u
4706 4708 4709
3757 2k2
3758 2k2
3756 100
3755 100
7710
ST24C02CP
X24C16P(FOR SAT)
EEPROM
4721
1,2,3,4
2715 120p
2714 120p
3M31
2M31
8115
1M31
4700
B/O
2V7
3V1
3759 100
2717 2n2
3707 1k6
2707 10n
2708 10n
REQUEST
16/9
3724 10k
3721 10k
4712
4716
10V7/0V
7703 BC848
0V1/0V8
3718 220
3725 10k
3722 10k
7704 BC848
3719 220
3726 10k
4718
10V7 /0V
7705 BC848
3723 10k
3720 220
3754 15k
4710
4450
3750 27k
3702 15k
4451
3701 27k
3736 100
2712 27p
1702 6.00MHz
2711 27p
3770 4k7
3743 4k7
2709 6p8
5701 56u
2710 6p8
3779 10k
3778 56k
3777 27k
3776 56k
3775 100
P-
P+
INSTALL.
6707
3729 910
3730 220
6705 BZV55
2705 120p
4707
3727 100
3780 10k
2704 47n
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
4717
2M20
4M26
1M33
1M34
SERVICE
IDENT
E88
E89
B21
D22
D23
R
G/V
B
FBL
C24
C25
C26
C27

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| | 1702 | J13 |
| | 1986 | A 3 |
| | 2M31 | C 9 |
| A | 2704 | N 4 |
| | 2705 | M 8 |
| | 2706 | A11 |
| | 2707 | F 7 |
| | 2708 | E14 |
| | 2709 | L14 |
| | 2710 | L14 |
| | 2711 | K14 |
| B | 2712 | J14 |
| | 2713 | B 7 |
| | 2714 | D 7 |
| | 2715 | D 6 |
| | 2716 | A12 |
| | 2717 | E 7 |
| | 2718 | D16 |
| | 2719 | J16 |
| C | 2721 | K16 |
| | 2722 | K16 |
| | 2781 | J16 |
| | 3701 | L 9 |
| | 3702 | K 8 |
| | 3707 | F 8 |
| | 3718 | H 9 |
| D | 3719 | I 7 |
| | 3720 | I 5 |
| | 3721 | G 8 |
| | 3722 | H 6 |
| | 3723 | I 5 |
| | 3724 | G 3 |
| | 3725 | H 6 |
| | 3726 | I 3 |
| E | 3727 | N 5 |
| | 3728 | E15 |
| | 3729 | L 6 |
| | 3730 | L 6 |
| | 3732 | B16 |
| | 3733 | C16 |
| | 3734 | C16 |
| | 3736 | I 5 |
| F | 3737 | J17 |
| | 3741 | L16 |
| | 3742 | L16 |
| | 3743 | K15 |
| | 3747 | H16 |
| | 3748 | G15 |
| | 3749 | F15 |
| G | 3750 | K 8 |
| | 3751 | H16 |
| | 3752 | F15 |
| | 3753 | F15 |
| | 3754 | J 8 |
| | 3755 | C 4 |
| | 3756 | C 4 |
| | 3757 | C 3 |
| H | 3758 | C 3 |
| | 3759 | E 8 |
| | 3768 | K16 |
| | 3770 | J15 |
| | 3771 | K17 |
| | 3772 | K17 |
| | 3775 | L 5 |
| | 3776 | L 4 |
| I | 3777 | L 4 |
| | 3778 | L 3 |
| | 3779 | L 3 |
| | 3780 | N 3 |
| | 3781 | J15 |
| | 41 | M 3 |
| | 4450 | J 8 |
| J | 4451 | K 8 |
| | 4700 | D 8 |
| | 4704 | I 3 |
| | 4706 | B 8 |
| | 4707 | N 7 |
| | 4708 | B 8 |
| | 4709 | B 9 |
| K | 4710 | J 8 |
| | 4712 | H 4 |
| | 4716 | H 4 |
| | 4717 | N 5 |
| | 4718 | I 3 |
| | 4721 | E 3 |
| | 5701 | L13 |
| L | 5703 | B12 |
| | 6705 | M 7 |
| | 6707 | M 5 |
| | 6708 | K17 |
| | 6709 | D16 |
| | 7703 | H 8 |
| | 7704 | I 6 |
| | 7705 | I 4 |
| M | 7706 | K15 |
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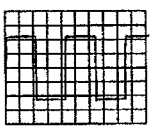
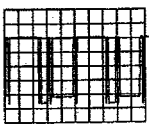
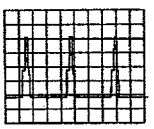
| O | | |



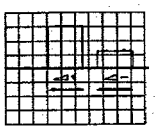
TP 12
1 V/div AC
10 µS/div



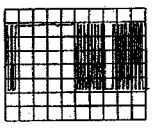
TP 15
1 V/div AC
0,2 mS/div



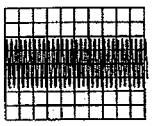
⑫
2 V/div AC
20 µS/div



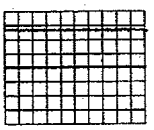
TP 13
1 V/div DC
1 S/div



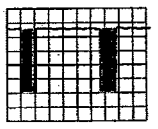
TP 16
1 V/div DC
0,1 mS/div



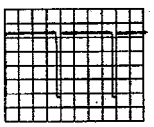
⑬
1 V/div AC
0,5 µS/div



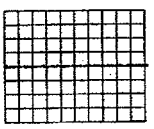
TP 14
1 V/div DC
0,5 mS/div



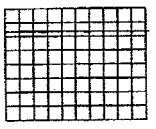
TP 17
1 V/div DC
20 mS/div



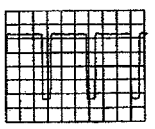
⑭
1 V/div AC
5 mS/div



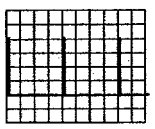
TP 14 ⏻
0,2 V/div DC
0,5 mS/div



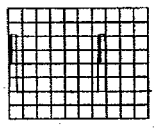
TP 18
2 V/div DC
20 mS/div



⑮
1 V/div AC
20 µS/div

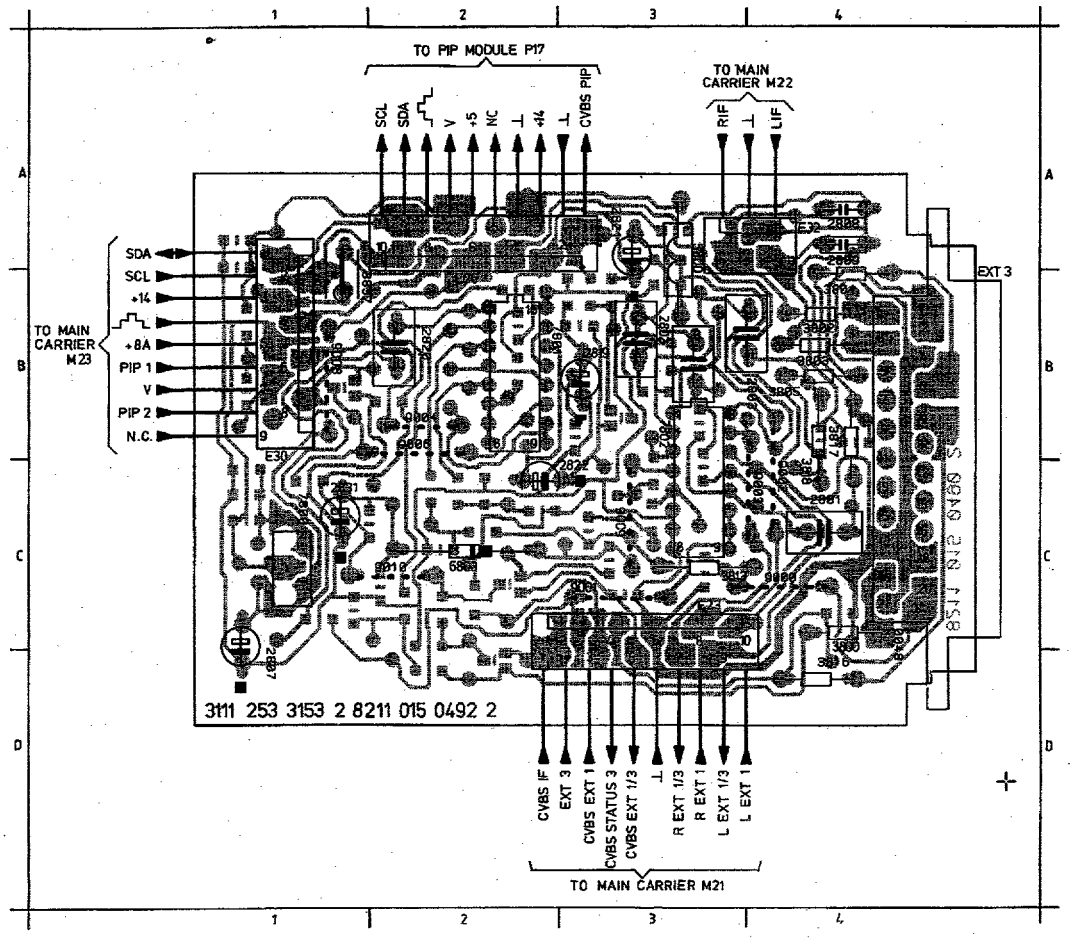


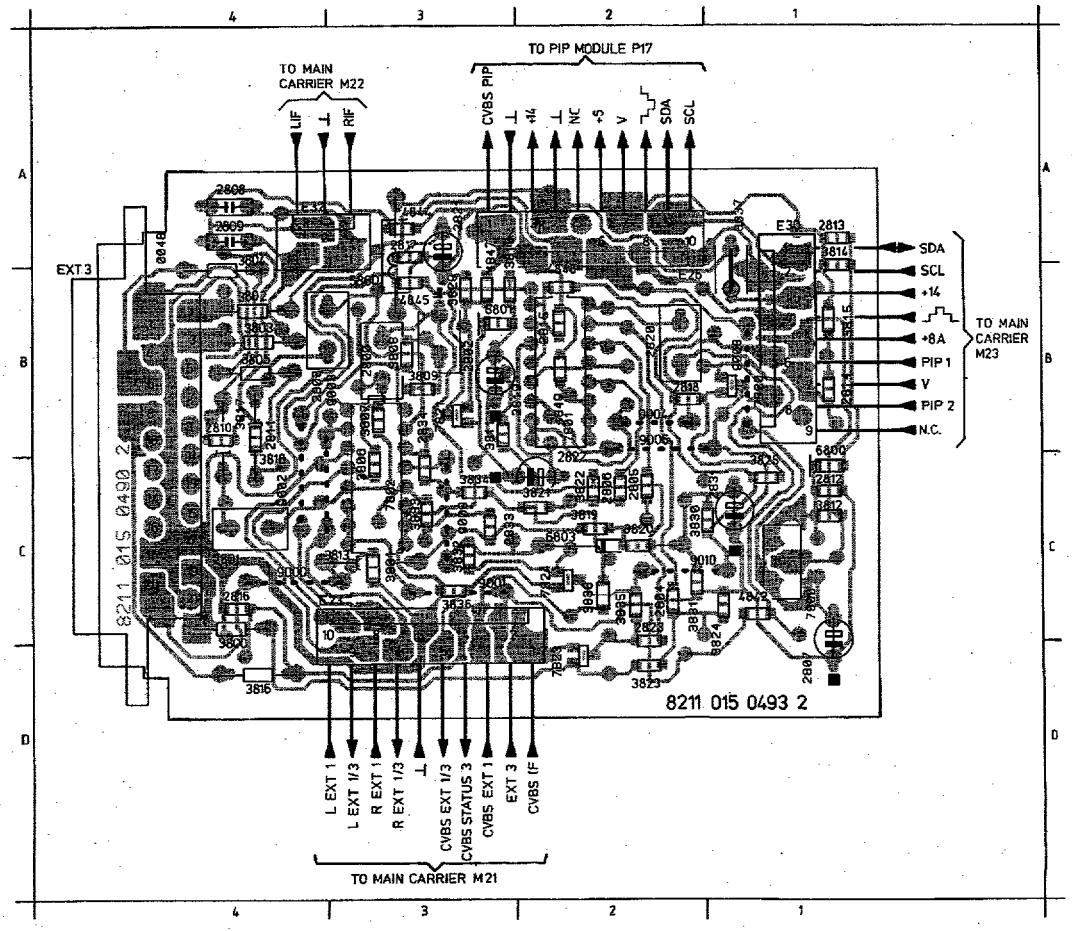
⑯
0,5 V/div AC
5 mS/div



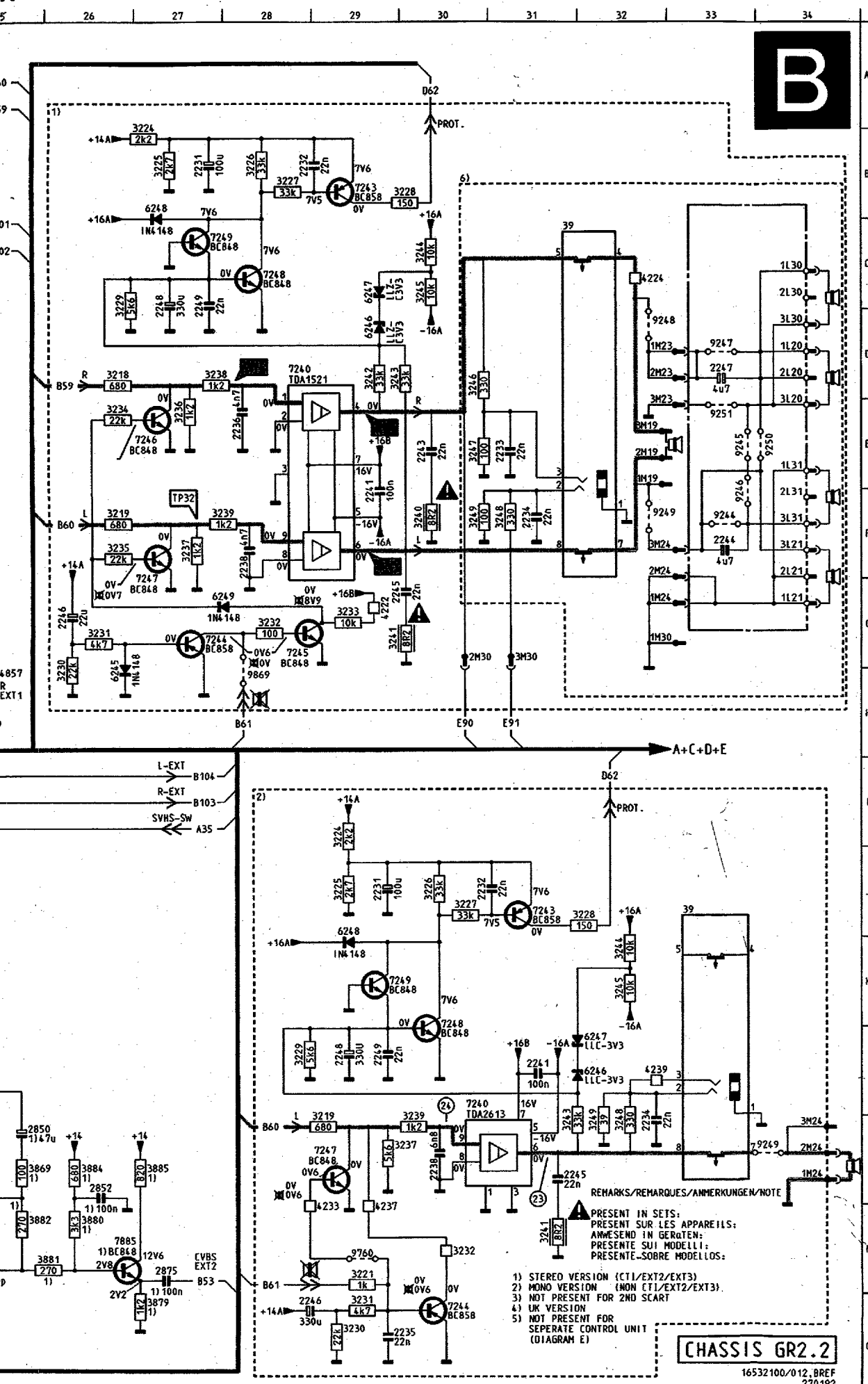
⑯
1 V/div AC
10 µS/div

# Euro module (ECO)
# Euro-AV-Platte (ECO)
# Module Prise Péritélévision (ECO)




E23 D3
E26 A2
E30 B1
E32 A3
0048 C4
2800 B3
2801 C4
2802 B3
2803 B4
2804 D2
2805 C2
2806 C2
2807 D1
2808 A4
2809 B4
2810 C4
2811 C4
2812 C1
2813 B1
2814 B1
2815 B2
2816 D4
2817 B3
2818 C2
2819 B3
2820 B2
2821 B3
2822 C2
2823 D2
2831 C1
2833 C3
2834 C3
3800 D4
3801 C3
3802 B4
3803 B4
3804 B4
3805 B4
3806 C3
3807 C3
3808 B3
3809 B3
3810 B3
3811 C3
3812 C1
3813 C3
3815 B1
3816 D4
3817 C4
3818 C4
3819 C2
3820 C2
3821 C2
3822 C2
3823 D2
3824 D1
3825 C1
3829 B3
3830 C2
3831 C2
3832 C3
3833 C3
3834 C3
3835 D2
3836 D3
3837 B1
3838 D2
4800 A4
4842 D1
4844 B3
4845 B3
4847 B3
4848 B2
4849 B2
5800 B3
6800 C1
6801 B3
6803 C2
7800 C1
7801 B2
7802 C3
7820 B1
7821 C3
7823 D2
7824 C2
9000 C4
9001 D3
9002 C4
9003 C4
9004 C2
9006 C2
9008 B1
9009 C3
9010 C2




| | | | | |
|---|---|---|---|---|
| 1000 | C 1 | 3258 | I21 | |
| 1240 | I 3 | 3259 | I21 | |
| 1242 | H 3 | 3260 | I21 | |
| 2001 | B 1 | 3261 | D24 | |
| 2002 | F 2 | 3262 | D24 | A |
| 2003 | G 3 | 3263 | K20 | |
| 2004 | D 4 | 3264 | L20 | |
| 2008 | G 4 | 3265 | H22 | |
| 2010 | G 4 | 3266 | H25 | |
| 2230 | F 1 | 3267 | I23 | |
| 2231 | J29 | 3268 | I23 | |
| 2231 | B27 | 3386 | C20 | |
| 2232 | J30 | 3850 | E21 | B |
| 2232 | B28 | 3851 | G22 | |
| 2233 | E31 | 3852 | G22 | |
| 2234 | M32 | 3853 | G23 | |
| 2234 | F31 | 3854 | G23 | |
| 2235 | O29 | 3855 | H21 | |
| 2236 | E28 | 3856 | E21 | |
| 2237 | J 4 | 3857 | E21 | |
| 2238 | M30 | 3858 | D21 | C |
| 2238 | F28 | 3859 | D21 | |
| 2239 | I 5 | 3860 | G21 | |
| 2240 | J 4 | 3861 | O21 | |
| 2241 | L31 | 3862 | F21 | |
| 2241 | F29 | 3866 | J22 | |
| 2242 | I 4 | 3867 | O24 | |
| 2243 | E30 | 3868 | N25 | D |
| 2244 | F33 | 3869 | M25 | |
| 2245 | M31 | 3870 | N24 | |
| 2245 | G29 | 3871 | N22 | |
| 2246 | O28 | 3872 | F20 | |
| 2246 | G26 | 3874 | H20 | |
| 2247 | D33 | 3879 | O27 | |
| 2248 | L29 | 3880 | N26 | |
| 2248 | C27 | 3881 | N25 | E |
| 2249 | L29 | 3882 | N25 | |
| 2249 | C27 | 3884 | M26 | |
| 2250 | D23 | 3885 | M27 | |
| 2251 | D25 | 3887 | B21 | |
| 2252 | I22 | 3888 | F23 | |
| 2254 | G23 | 3889 | C21 | |
| 2255 | G25 | 3890 | D21 | F |
| 2256 | H24 | 39 | C31 | |
| 2257 | H23 | 39 | J33 | |
| 2262 | M20 | 4222 | G29 | |
| 2263 | M21 | 4223 | J 4 | |
| 2264 | L21 | 4224 | C32 | |
| 2265 | L21 | 4233 | N29 | |
| 2266 | I23 | 4237 | N29 | |
| 2850 | M25 | 4239 | L32 | G |
| 2851 | N25 | 4850 | O22 | |
| 2852 | M26 | 4851 | N23 | |
| 2853 | C21 | 4853 | K21 | |
| 2854 | G21 | 4856 | G22 | |
| 2875 | N27 | 4857 | H25 | |
| 3001 | B 2 | 4858 | J22 | |
| 3002 | H 5 | 4859 | J24 | H |
| 3003 | F 2 | 4860 | L21 | |
| 3010 | F 4 | 4861 | F 4 | |
| 3218 | D26 | 4867 | J24 | |
| 3219 | M29 | 49 | F21 | |
| 3219 | F26 | 5001 | G 3 | |
| 3220 | H 4 | 5240 | I 3 | |
| 3221 | N29 | 5242 | H 3 | |
| 3222 | K 1 | 6245 | H26 | I |
| 3224 | I29 | 6246 | L32 | |
| 3224 | B27 | 6246 | D29 | |
| 3225 | J29 | 6247 | L32 | |
| 3225 | B27 | 6247 | C29 | |
| 3226 | J30 | 6248 | B27 | |
| 3226 | B28 | 6248 | J29 | |
| 3227 | J30 | 6249 | G27 | J |
| 3227 | B28 | 7003 | G 3 | |
| 3228 | J32 | 7240 | L30 | |
| 3228 | B30 | 7240 | D28 | |
| 3229 | I28 | 7243 | J31 | |
| 3229 | C26 | 7243 | B29 | |
| 3230 | O29 | 7244 | D30 | |
| 3230 | N26 | 7244 | G27 | |
| 3231 | O29 | 7245 | G28 | K |
| 3231 | G26 | 7246 | E27 | |
| 3232 | N30 | 7247 | M29 | |
| 3232 | G28 | 7247 | F27 | |
| 3233 | G29 | 7248 | L30 | |
| 3234 | E26 | 7248 | C28 | |
| 3235 | F26 | 7249 | K29 | |
| 3236 | E27 | 7249 | C27 | |
| 3237 | M29 | 7311 | M22 | L |
| 3237 | F27 | 7312 | J22 | |
| 3238 | D27 | 7850 | C21 | |
| 3239 | M30 | 7885 | N26 | |
| 3239 | F27 | 7886 | F20 | |
| 3240 | F30 | 9244 | F33 | |
| 3241 | N31 | 9245 | E33 | |
| 3241 | G29 | 9246 | F33 | M |
| 3242 | D29 | 9247 | D33 | |
| 3243 | D29 | 9248 | D32 | |
| 3243 | M31 | 9249 | F32 | |
| 3244 | C30 | 9249 | M34 | |
| 3244 | K32 | 9250 | E34 | |
| 3245 | C30 | 9251 | E33 | |
| 3245 | K32 | 9760 | N29 | N |
| 3246 | D30 | 9869 | H28 | |
| 3247 | E30 | | | |
| 3248 | M32 | | | |
| 3248 | F31 | | | |
| 3249 | M32 | | | |
| 3249 | F30 | | | |
| 3250 | G24 | | | |
| 3251 | G23 | | | O |
| 3253 | F24 | | | |
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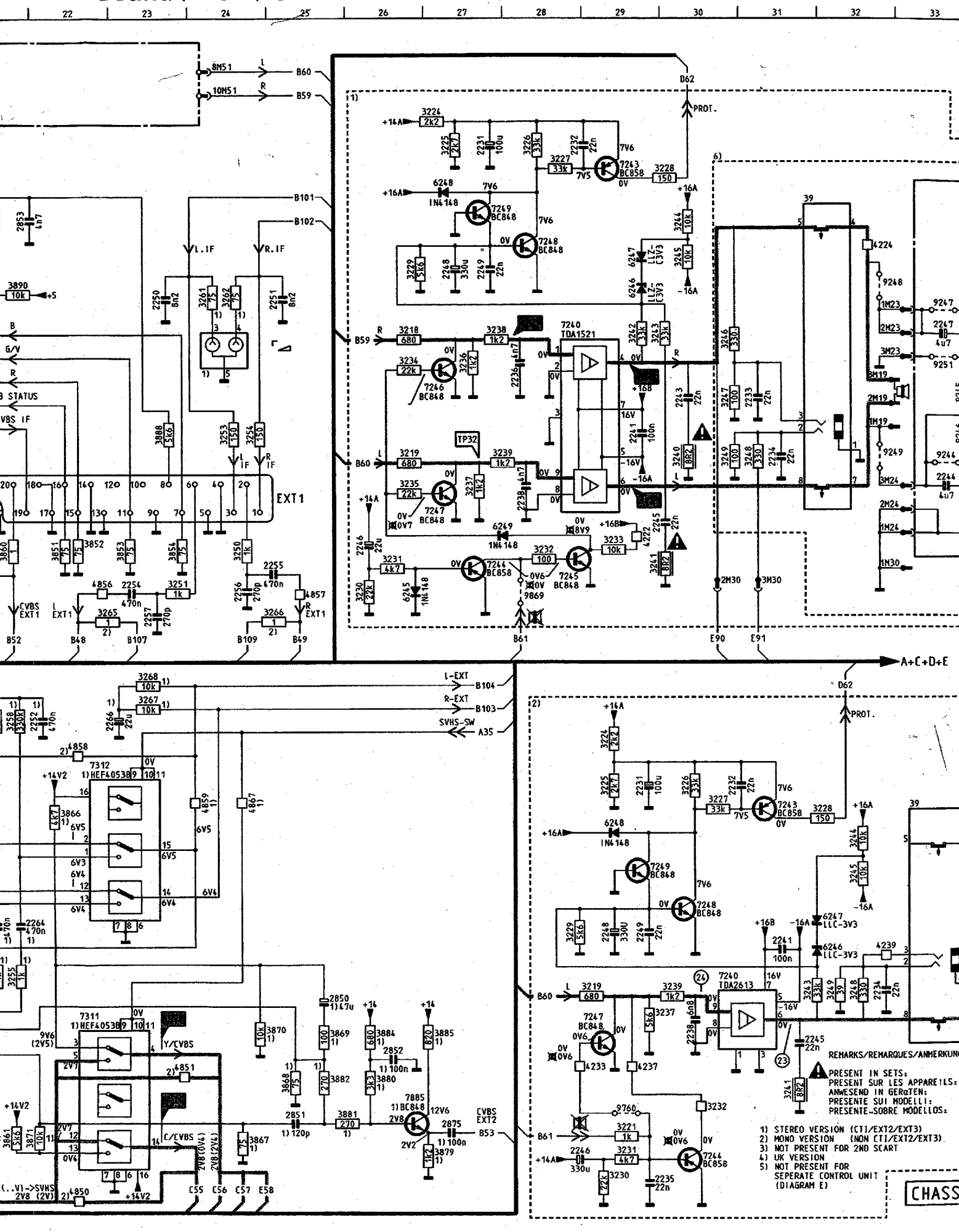
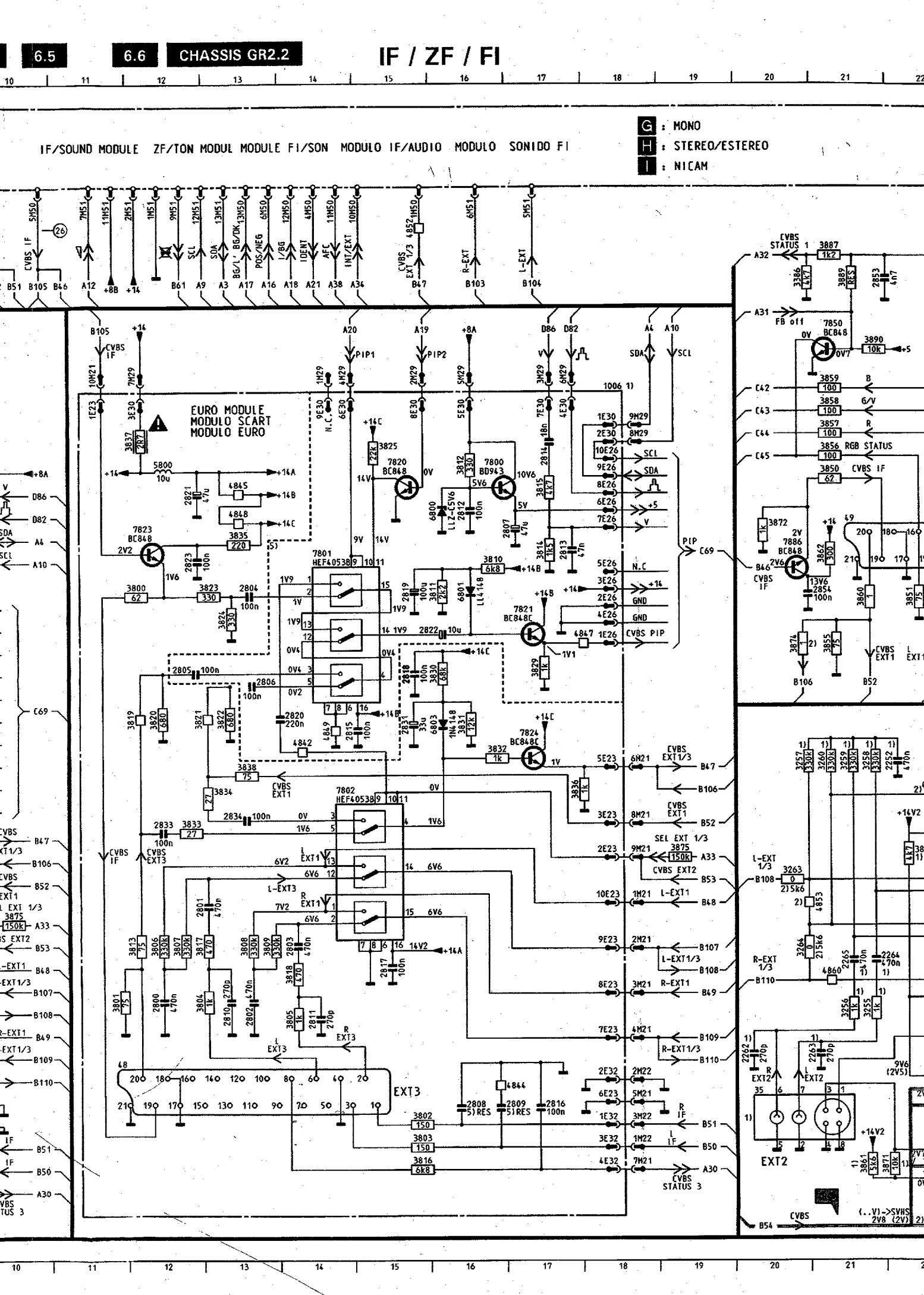
| 3255 | L21 | | | |
| 3256 | L21 | | | |
| 3257 | I20 | | | |

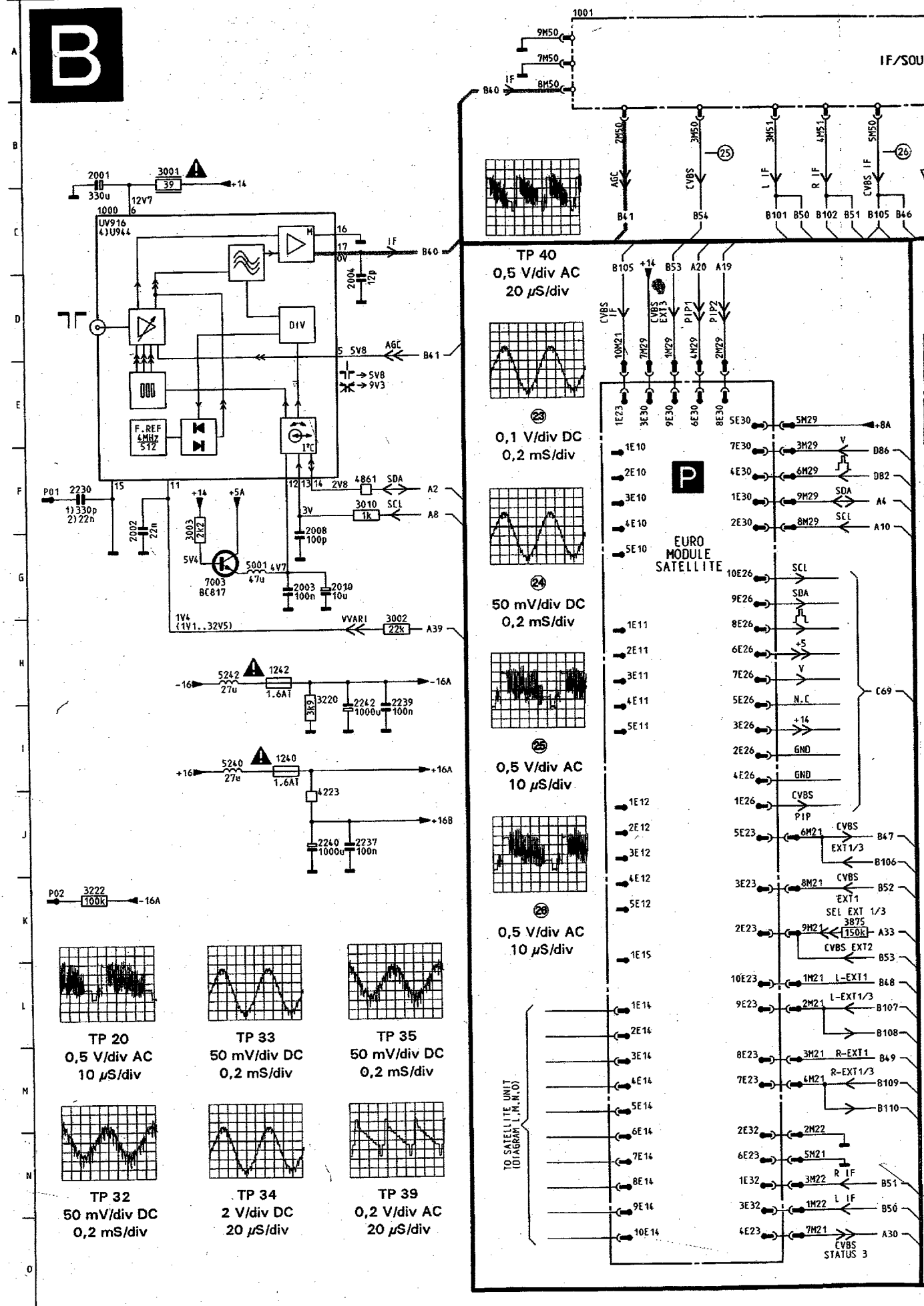

8M51
10M51
B60
B59
B101
B102
L.IF
R.IF
EXT1
CVBS EXT1
B52
B48
B107
B109
B49
B61
D62
PROT.
TDA1521
TDA2613
BC858
BC848
IN4148
LLC-3V3
E90
E91
A+C+D+E
L-EXT
R-EXT
SVHS-SW
B104
B103
A35
HEF4053B
Y/CVBS
C/CVBS
CVBS EXT2
B53
REMARKS/REMARQUES/ANMERKUNG
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) STEREO VERSION (CTI/EXT2/EXT3)
2) MONO VERSION (NON CTI/EXT2/EXT3)
3) NOT PRESENT FOR 2ND SCART
4) UK VERSION
5) NOT PRESENT FOR SEPERATE CONTROL UNIT (DIAGRAM E)

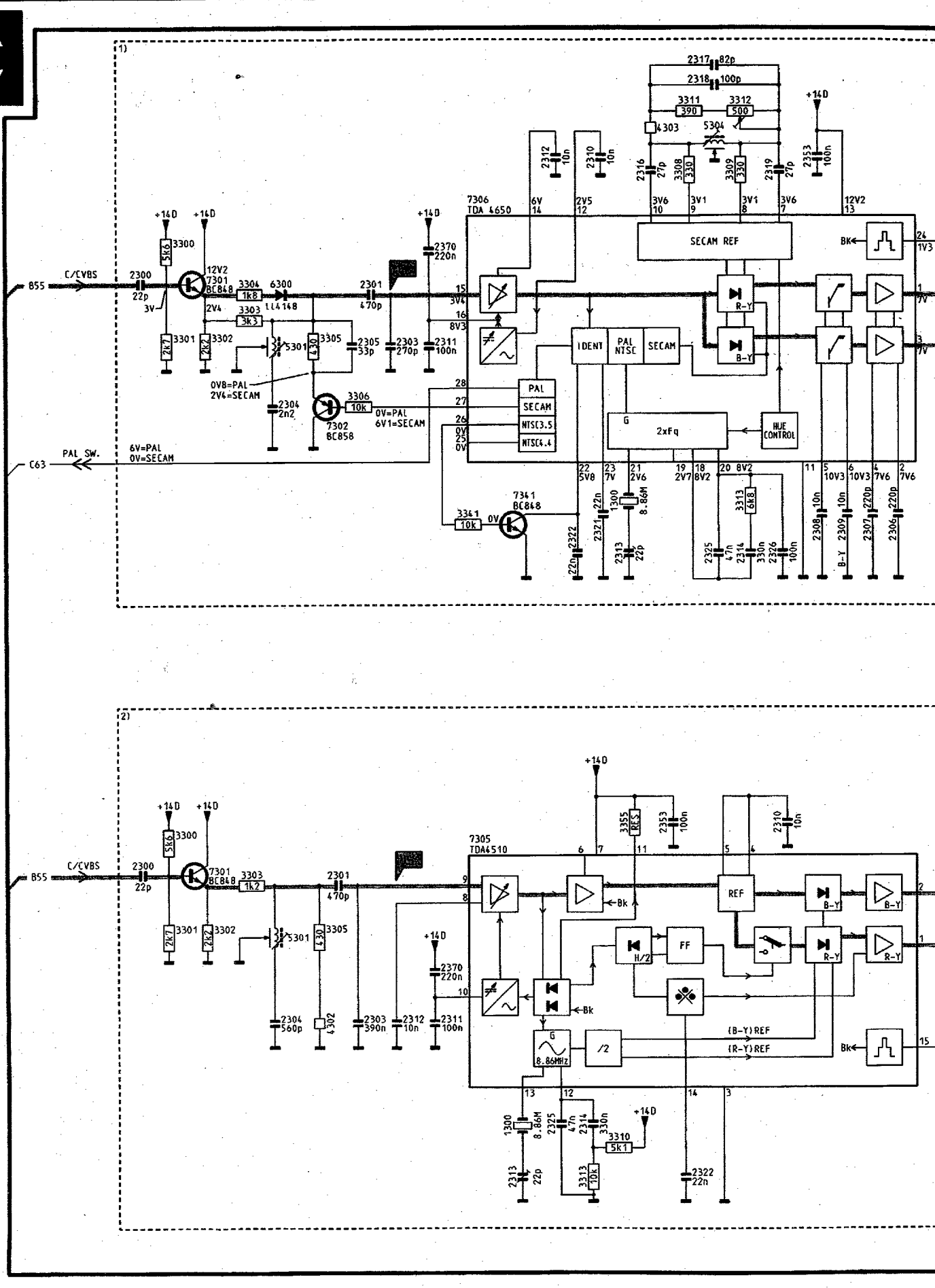
# IF / ZF / FI

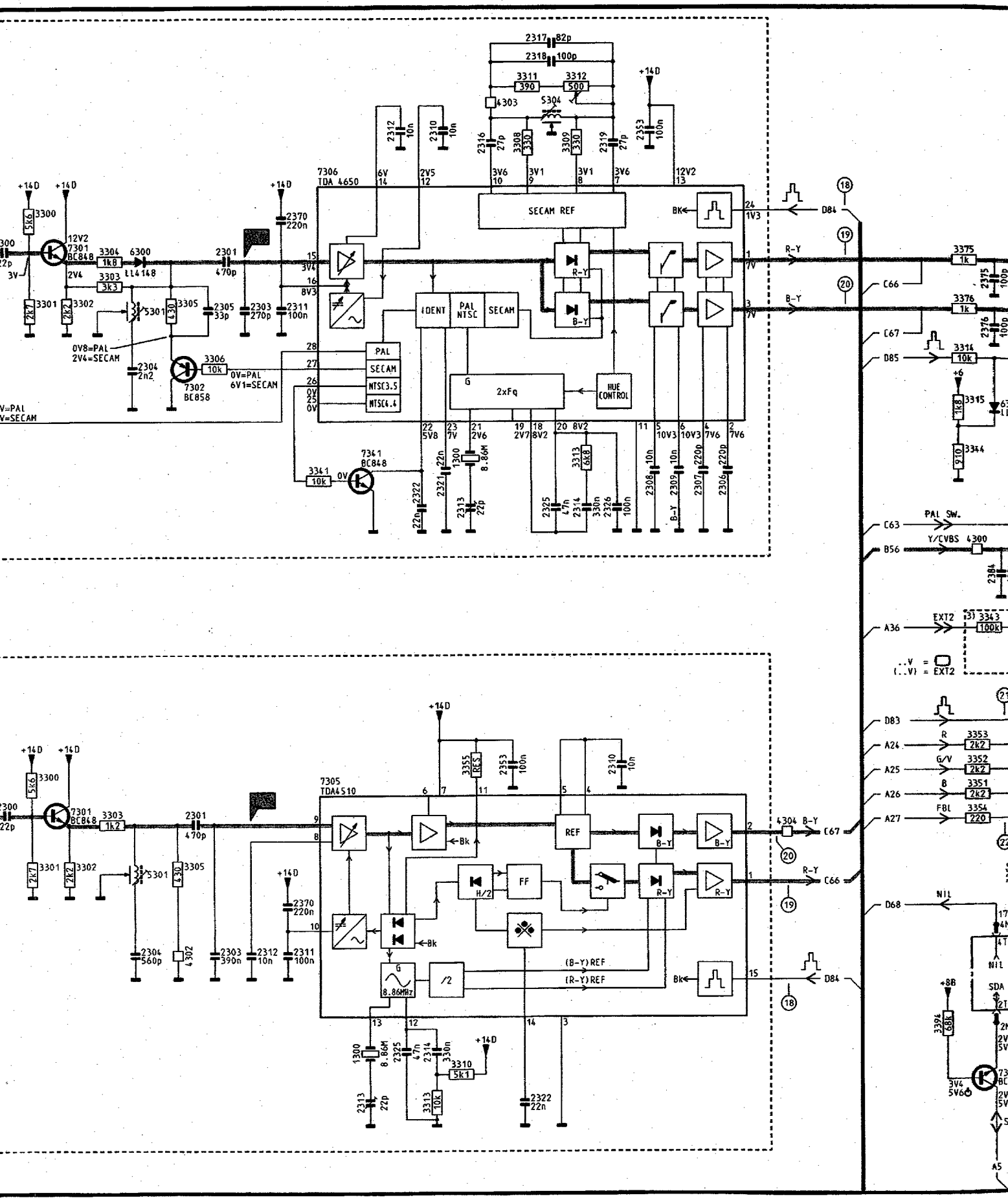
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON MODULO IF/AUDIO MODULO SONIDO FI

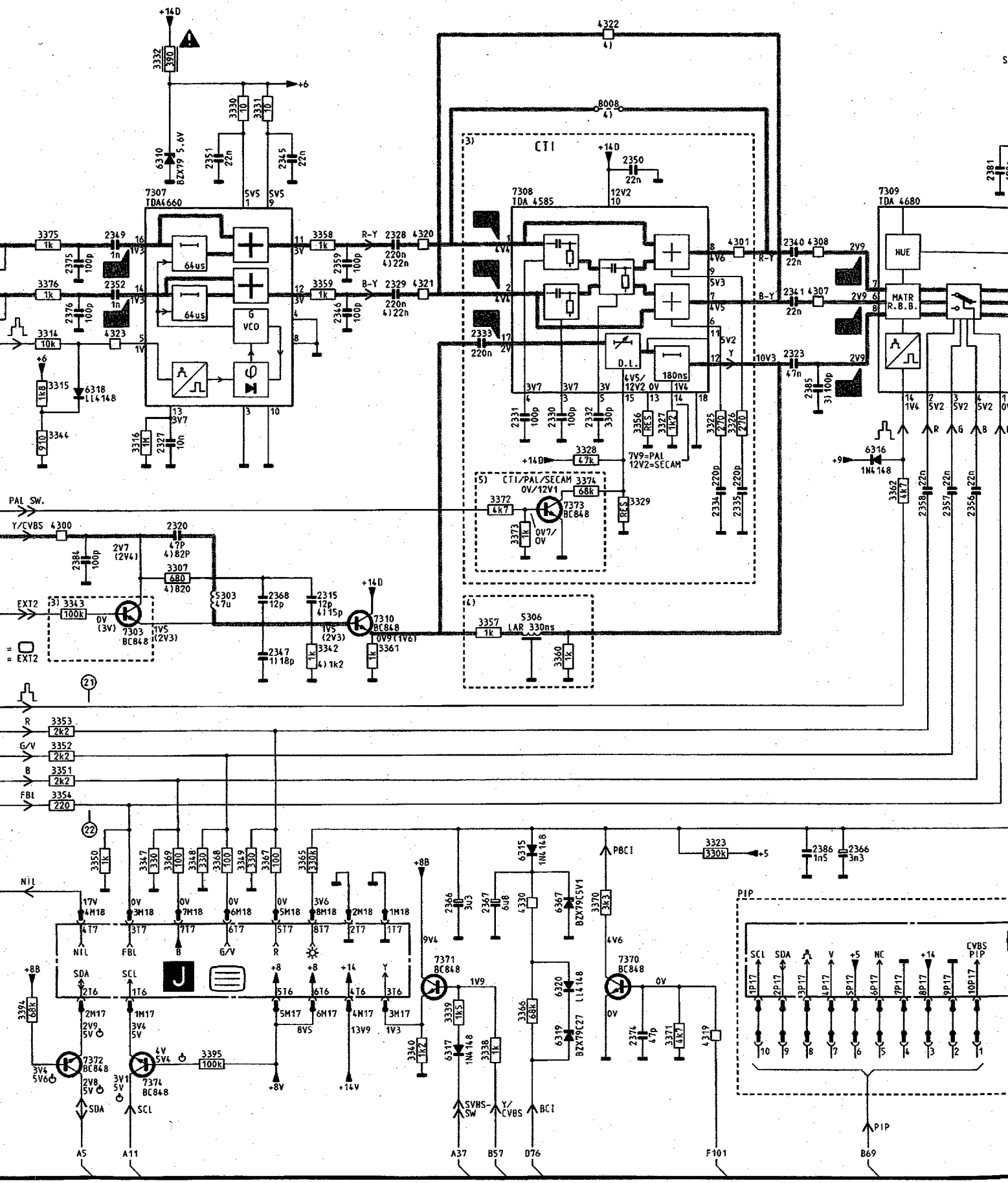
G : MONO
H : STEREO/ESTEREO
I : NICAM




B
IF/SOU
1001
9M50
7M50
8M50
IF
B40
2M50
AGC
B41
3M50
CVBS
B54
25
3M51
L IF
B101 B50
4M51
R IF
B102 B51
5M50
CVBS IF
B105 B46
26
2001
330u
3001
39
+14
12V7
1000
UV916
4)U944
16
17
0V
IF
B40
2004
12p
DIV
5 5V8
AGC
B41
5V8
9V3
F.REF
4MHz
512
I²C
P01
2230
1) 330p
2) 22n
15
11
2002
22n
+14
+5A
3003
2k2
5V4
7003
BC817
5001
47u
4V7
2003
100n
2010
10u
12 13 14 2V8
4861
SDA
A2
3010
1k
SCL
A8
3V
2008
100p
1V4
(1V1..32V5)
VVARI
3002
22k
A39
-16
5242
27u
1242
1.6AT
-16A
3k9
3220
2242
1000u
2239
100n
+16
5240
27u
1240
1.6AT
+16A
4223
+16B
2240
1000u
2237
100n
P02
3222
100k
-16A
TP 20
0,5 V/div AC
10 µS/div
TP 33
50 mV/div DC
0,2 mS/div
TP 35
50 mV/div DC
0,2 mS/div
TP 32
50 mV/div DC
0,2 mS/div
TP 34
2 V/div DC
20 µS/div
TP 39
0,2 V/div AC
20 µS/div
TP 40
0,5 V/div AC
20 µS/div
23
0,1 V/div DC
0,2 mS/div
24
50 mV/div DC
0,2 mS/div
25
0,5 V/div AC
10 µS/div
26
0,5 V/div AC
10 µS/div
B105 +14 B53 A20 A19
CVBS IF
CVBS EXT3
PIP1
PIP2
10M21
2M29
1M29
4M29
2M29
1E23 3E30 9E30 6E30 8E30
P
EURO
MODULE
SATELLITE
1E10
2E10
3E10
4E10
5E10
1E11
2E11
3E11
4E11
5E11
1E12
2E12
3E12
4E12
5E12
1E15
1E14
2E14
3E14
4E14
5E14
6E14
7E14
8E14
9E14
10E14
TO SATELLITE UNIT
(DIAGRAM L,M,N,O)
5E30 5M29 +8A
7E30 3M29 V D86
4E30 6M29 D82
1E30 9M29 SDA A4
2E30 8M29 SCL A10
10E26 SCL
9E26 SDA
8E26
6E26 +5
7E26 V
5E26 N.C
3E26 +14
2E26 GND
4E26 GND
1E26 CVBS P1P
C69
5E23 6M21 CVBS EXT1/3 B47
B106
3E23 8M21 CVBS EXT1 B52
SEL EXT 1/3
2E23 9M21 3875 150k A33
CVBS EXT2 B53
10E23 1M21 L-EXT1 B48
9E23 2M21 L-EXT1/3 B107
B108
8E23 3M21 R-EXT1 B49
7E23 4M21 R-EXT1/3 B109
B110
2E32 2M22
6E23 5M21 R IF
1E32 3M22 B51
3E32 1M22 L IF B50
4E23 7M21 CVBS STATUS 3 A30


C
1)
2)
C/CVBS
B55
PAL SW.
C63
7306 TDA 4650
7305 TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
PAL
SECAM
NTSC3.5
NTSC4.4
2xFq
HUE CONTROL
R-Y
B-Y
REF
H/2
FF
/2
8.86MHz
+14D
0V=PAL
6V1=SECAM
6V=PAL
0V=SECAM
0V8=PAL
2V4=SECAM


7306 TDA 4650
7305 TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
2xFq
HUE CONTROL
REF
FF
H/2
/2
8.86MHz
R-Y
B-Y
(B-Y)REF
(R-Y)REF
PAL
SECAM
NTSC3.5
NTSC4.4
0V8=PAL
2V4=SECAM
0V=PAL
6V1=SECAM
PAL SW.
Y/CVBS 4300
EXT2
..V = EXT2
(..V) = EXT2
SDA
NIL
+14D
+8B


+14D
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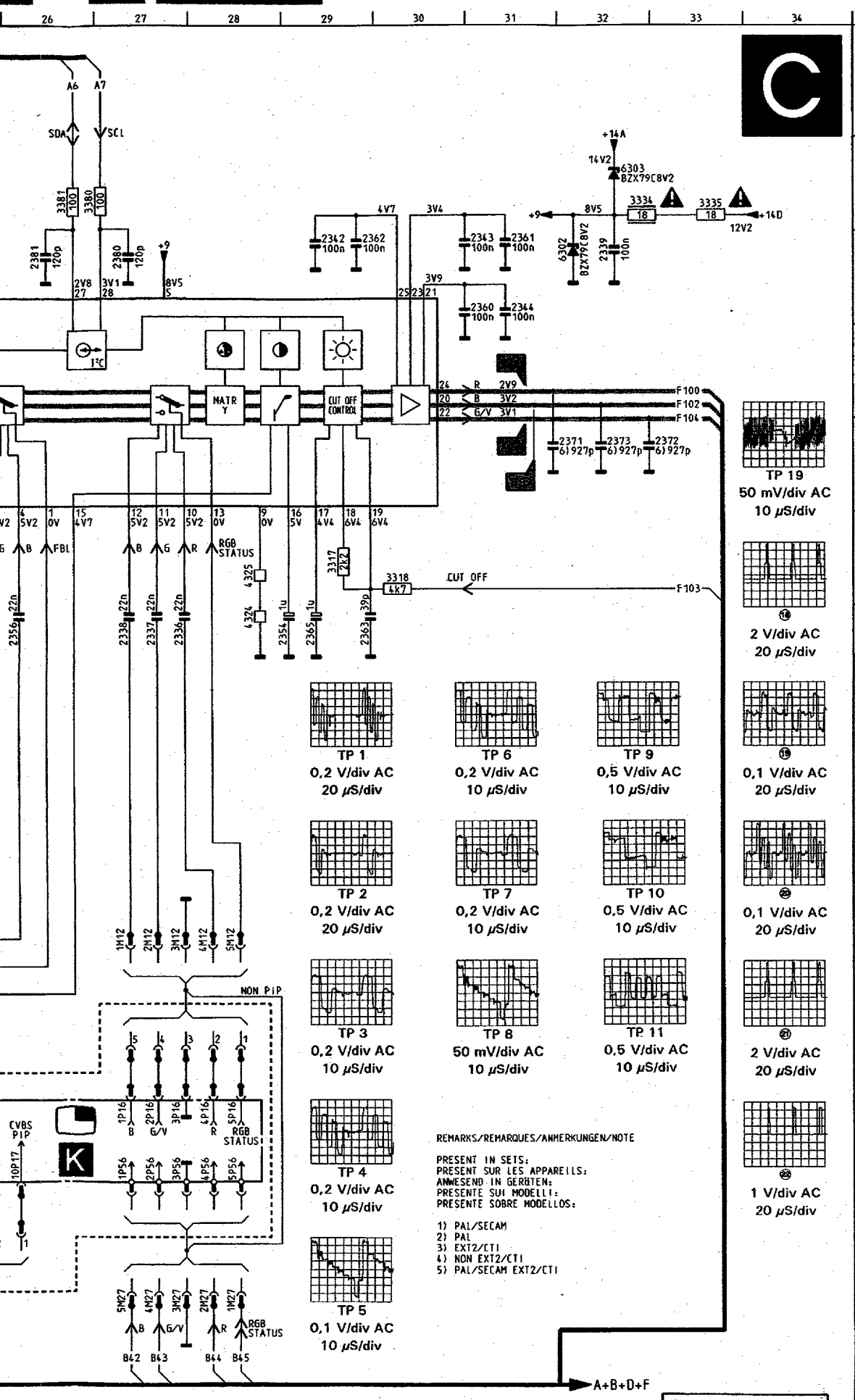
7309 TDA 4680
CTI
64us
VCO
D.L.
180ns
HUE
MATR R.B.B.
CTI/PAL/SECAM 0V/12V1
7V9=PAL 12V2=SECAM
PAL SW.
Y/CVBS 4300
EXT2
LAR 330ns
SDA
SCL
SVHS-SW
Y/CVBS
BCI
PBCI
PIP
A5
A11
A37
B57
D76
F101
B69

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| | 1300 | M 7 | 3323 | K23 |
| | 2300 | C 3 | 3325 | F23 |
| | 2300 | J 3 | 3326 | F23 |
| A | 2301 | D 6 | 3327 | F22 |
| | 2301 | J 5 | 3328 | F21 |
| | 2303 | D 6 | 3329 | G21 |
| | 2303 | L 5 | 3330 | B17 |
| | 2304 | E 4 | 3331 | B17 |
| | 2304 | L 4 | 3332 | A16 |
| | 2305 | D 5 | 3334 | B32 |
| | 2306 | F12 | 3335 | B33 |
| B | 2307 | F11 | 3338 | M20 |
| | 2308 | F11 | 3339 | M19 |
| | 2309 | F11 | 3340 | M19 |
| | 2310 | B 8 | 3341 | F 7 |
| | 2310 | J10 | 3342 | H18 |
| | 2311 | D 6 | 3343 | H15 |
| | 2311 | L 6 | 3344 | F14 |
| | 2312 | B 8 | 3347 | K16 |
| C | 2312 | L 6 | 3348 | K16 |
| | 2313 | G 8 | 3349 | K17 |
| | 2313 | N 7 | 3350 | K15 |
| | 2314 | G10 | 3351 | J15 |
| | 2314 | M 8 | 3352 | J15 |
| | 2315 | H18 | 3353 | I15 |
| | 2316 | B 9 | 3354 | J15 |
| | 2317 | A 9 | 3355 | J 8 |
| D | 2318 | A 9 | 3356 | F22 |
| | 2319 | B10 | 3357 | H20 |
| | 2320 | G16 | 3358 | D18 |
| | 2321 | F 8 | 3359 | D18 |
| | 2322 | N 9 | 3360 | I21 |
| | 2322 | G 8 | 3361 | H18 |
| | 2323 | E23 | 3362 | G25 |
| E | 2325 | G 9 | 3365 | K18 |
| | 2325 | M 8 | 3366 | M20 |
| | 2326 | G10 | 3367 | K17 |
| | 2327 | F16 | 3368 | K17 |
| | 2328 | D19 | 3369 | K16 |
| | 2329 | D19 | 3370 | L21 |
| | 2330 | F21 | 3371 | M22 |
| F | 2331 | F20 | 3372 | G20 |
| | 2332 | F21 | 3373 | G20 |
| | 2333 | E20 | 3374 | G21 |
| | 2334 | G23 | 3375 | D14 |
| | 2335 | G23 | 3376 | D14 |
| | 2336 | G27 | 3380 | B26 |
| | 2337 | G27 | 3381 | B26 |
| | 2338 | G27 | 3394 | M14 |
| G | 2339 | C32 | 3395 | M16 |
| | 2340 | D23 | 4300 | G15 |
| | 2341 | D23 | 4301 | D23 |
| | 2342 | C29 | 4303 | B 9 |
| | 2343 | C31 | 4304 | J12 |
| | 2344 | C31 | 4307 | D24 |
| | 2345 | C17 | 4308 | D24 |
| H | 2346 | D18 | 4319 | M22 |
| | 2347 | I17 | 4320 | D19 |
| | 2349 | D15 | 4321 | D19 |
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| | 2351 | C16 | 4323 | E15 |
| | 2352 | D15 | 4324 | G28 |
| | 2353 | B11 | 4325 | F28 |
| | 2353 | J 9 | 4330 | L20 |
| I | 2354 | G29 | 5301 | D 5 |
| | 2356 | G26 | 5301 | K 5 |
| | 2357 | G25 | 5303 | H16 |
| | 2358 | G25 | 5304 | B 9 |
| | 2359 | D18 | 5306 | H20 |
| | 2360 | C31 | 6300 | D 4 |
| | 2361 | C31 | 6302 | C32 |
| | 2362 | C29 | 6303 | B32 |
| J | 2363 | G29 | 6310 | C16 |
| | 2365 | G29 | 6315 | K20 |
| | 2366 | L19 | 6316 | F24 |
| | 2366 | K24 | 6317 | H19 |
| | 2367 | L20 | 6318 | E15 |
| | 2368 | H17 | 6319 | M21 |
| | 2370 | C 6 | 6320 | M21 |
| K | 2370 | K 6 | 6367 | L21 |
| | 2371 | E32 | 7301 | D 4 |
| | 2372 | E33 | 7301 | J 4 |
| | 2373 | E32 | 7302 | E 5 |
| | 2374 | M22 | 7303 | H15 |
| | 2375 | D15 | 7305 | J 7 |
| | 2376 | D15 | 7306 | C 7 |
| L | 2380 | C27 | 7307 | C16 |
| | 2381 | C26 | 7308 | C20 |
| | 2384 | G15 | 7309 | C24 |
| | 2385 | E24 | 7310 | H18 |
| | 2386 | K24 | 7341 | F 7 |
| | 3300 | C 3 | 7370 | L21 |
| | 3300 | J 3 | 7371 | L19 |
| | 3301 | D 3 | 7372 | N15 |
| M | 3301 | K 3 | 7373 | G21 |
| | 3302 | D 4 | 7374 | N16 |
| | 3302 | K 4 | 8008 | B21 |
| | 3303 | D 4 | | |
| | 3303 | J 4 | | |
| | 3304 | D 4 | | |
| | 3305 | D 5 | | |
| | 3305 | K 5 | | |
| N | 3306 | E 5 | | |
| | 3307 | H16 | | |
| | 3308 | B 9 | | |
| | 3309 | B10 | | |
| | 3310 | M 8 | | |
| | 3311 | B 9 | | |
| | 3312 | B10 | | |
| | 3313 | F10 | | |
| O | 3313 | N 8 | | |
| | 3314 | E14 | | |
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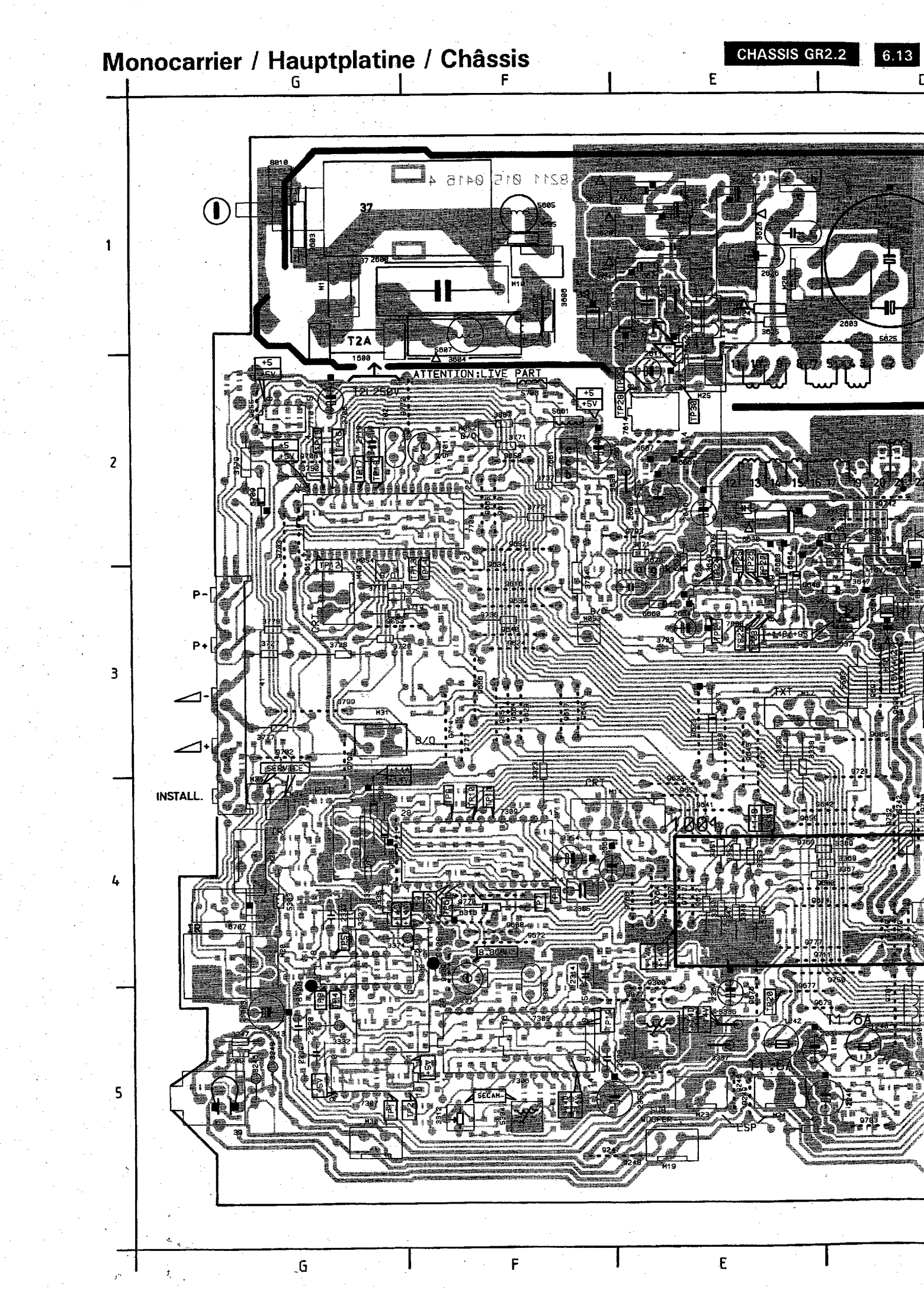
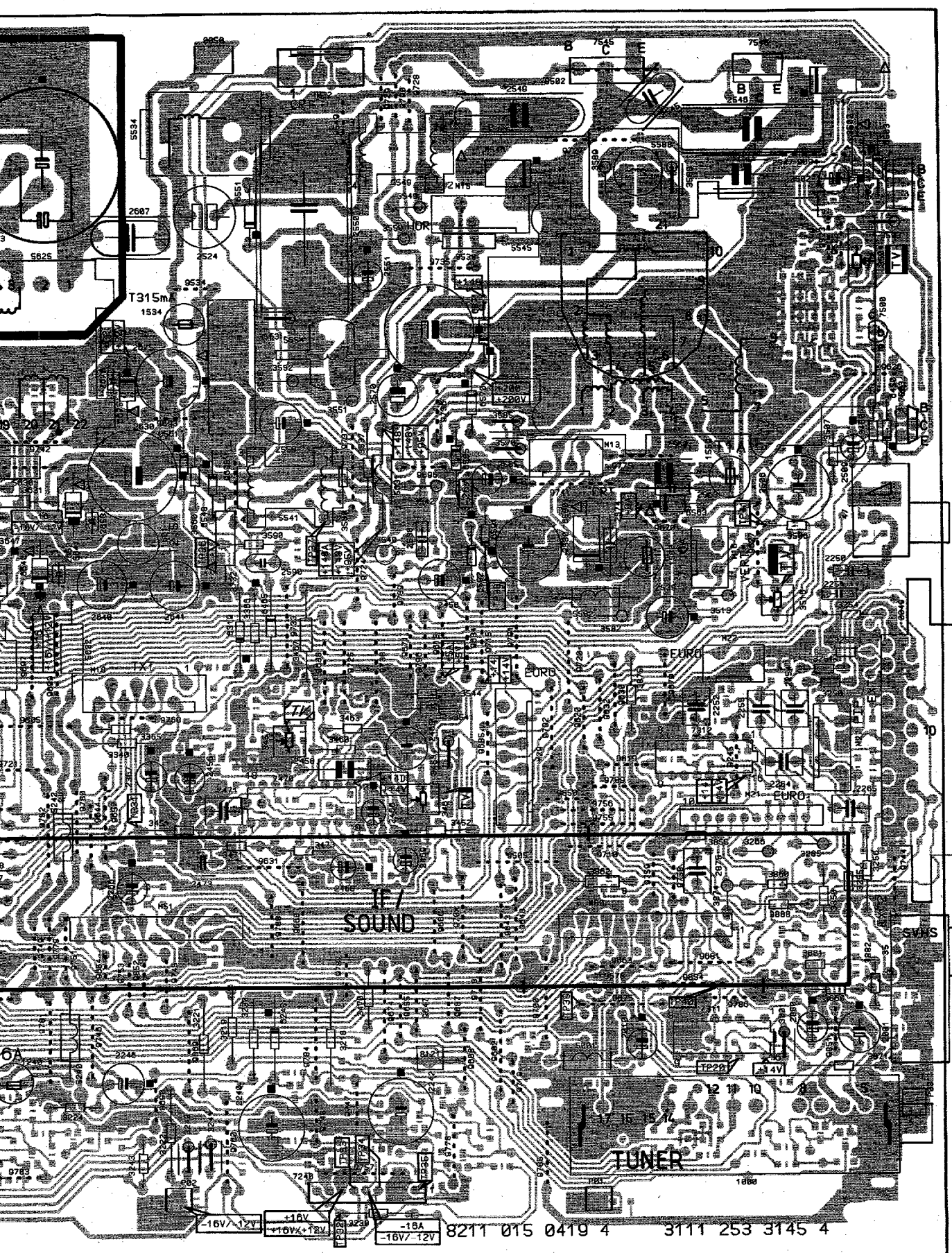
| | 3316 | F16 | | |
| | 3317 | F29 | | |

# Monocarrier / Hauptplatine / Châssis



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M18 C3
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M22 A3
M23 E5
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M25 E2
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M51 D4
M52 F2
M53 E3
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P01 B5
P02 C5
P03 A5
0035 A5
0037 G1
0039 G5
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0049 A4
1000 A5
1003 G5
1240 D5
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1300 F5
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1559 A2
1580 B3
1600 G2
1601 D3
1702 F2
2001 A5
2010 B5
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2242 C5
2246 D5
2248 D5
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2265 A4
2266 D4
2313 F5
2314 E5
2328 G5
2329 G5
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2354 F4
2355 E5
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2367 D4
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2585 B2
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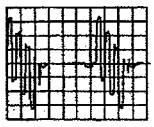
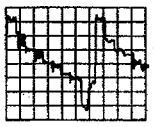
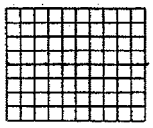


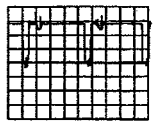
TP 1
0,2 V/div AC
20 µS/div



TP 8
50 mV/div AC
10 µS/div

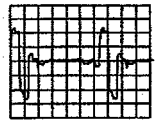


TP 14
0,2 V/div DC
0,5 mS/div

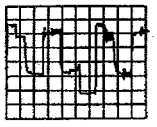


TP 21
0,5 V/div DC
5 µS/div

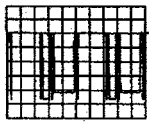
TP 26
0,1 V/div AC
5 mS/div



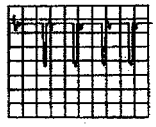
TP 2
0,2 V/div AC
20 µS/div



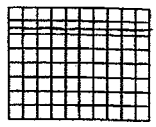
TP 9
0,5 V/div AC
10 µS/div



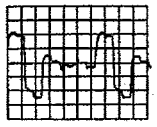
TP 15
1 V/div AC
0,2 mS/div



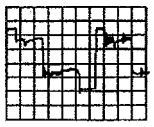
TP 21
0,5 V/div DC
10 µS/div



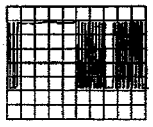
TP 27
1 V/div DC



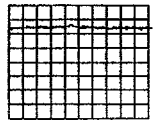
TP 3
0,2 V/div AC
10 µS/div



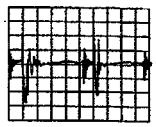
TP 10
0,5 V/div AC
10 µS/div



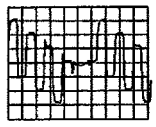
TP 16
1 V/div DC
0,1 mS/div



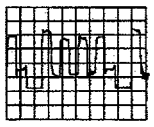
TP 22
1 V/div DC



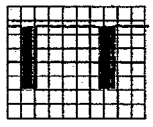
TP 27
50 mV/div AC
10 mS/div



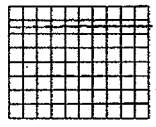
TP 4
0,2 V/div AC
10 µS/div



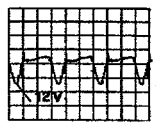
TP 11
0,5 V/div AC
10 µS/div



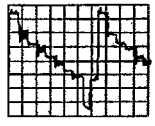
TP 17
1 V/div DC
20 mS/div



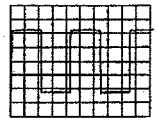
TP 23
1 V/div DC



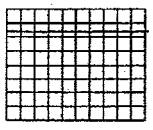

TP 28
0,5 V/div AC
5 µS/div



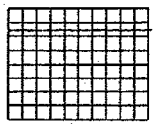
TP 5
0,1 V/div AC
10 µS/div



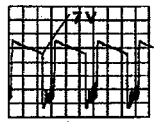
TP 12
1 V/div AC
10 µS/div



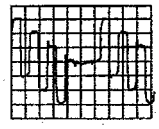
TP 18
2 V/div DC
20 mS/div



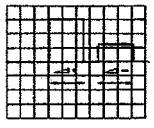
TP 24
5V/div DC



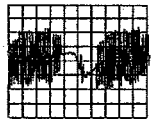

TP 28
1 /div AC
10 mS/div



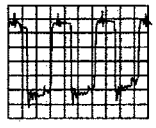
TP 6
0,2 V/div AC
10 µS/div



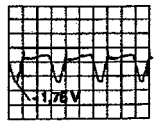
TP 13
1 V/div DC
1 S/div



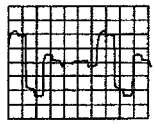
TP 19
50 mV/div AC
10 µS/div



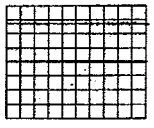
TP 25
0,2 V/div AC
5 µS/div



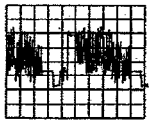

TP 29
0,5 V/div AC
5 µS/div



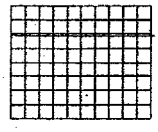
TP 7
0,2 V/div AC
10 µS/div



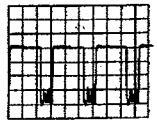
TP 14
1 V/div DC
0,5 mS/div



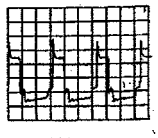
TP 20
0,5 V/div AC
10 µS/div



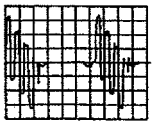
TP 26
1 V/div DC

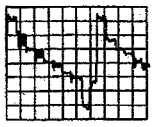


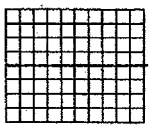
TP 29
1 V/div AC
10 mS/div

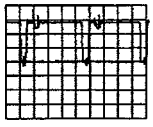


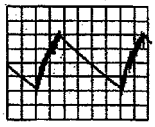
TP 30
2 V/div DC
5 µS/div

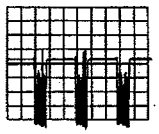

TP 1
0,2 V/div AC
20 µS/div

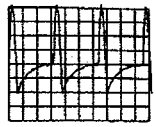

TP 8
50 mV/div AC
10 µS/div

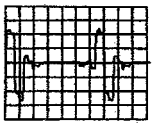

TP 14 ⏱
0,2 V/div DC
0,5 mS/div

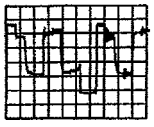

TP 21
0,5 V/div DC
5 µS/div

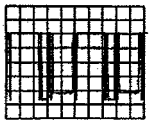

TP 26 ⏱
0,1 V/div AC
5 mS/div

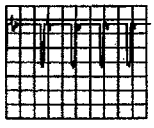

TP 30 ⏱
1 V/div DC
10 mS/div

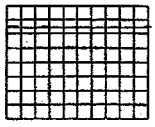

TP 38
20 mV/div AC
20 µS/div

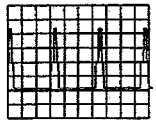

TP 2
0,2 V/div AC
20 µS/div

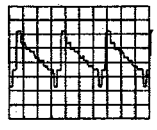

TP 9
0,5 V/div AC
10 µS/div

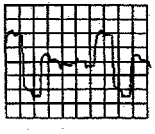

TP 15
1 V/div AC
0,2 mS/div

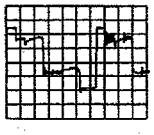

TP 21 ⏱
0,5 V/div DC
10 µS/div

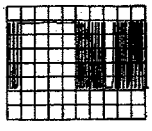

TP 27
1 V/div DC

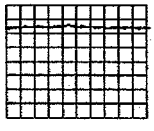

TP 31
2 V/div DC
20 µS/div

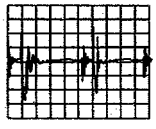

TP 39
0,2 V/div AC
20 µS/div

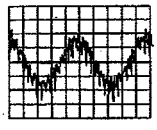

TP 3
0,2 V/div AC
10 µS/div

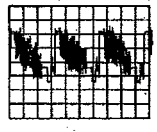

TP 10
0,5 V/div AC
10 µS/div

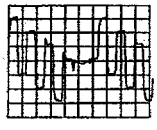

TP 16
1 V/div DC
0,1 mS/div

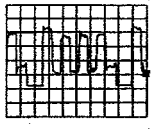

TP 22
1 V/div DC

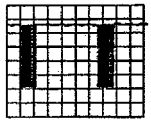

TP 27 ⏱
50 mV/div AC
10 mS/div

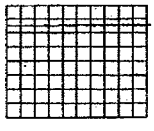

TP 32
50 mV/div DC
0,2 mS/div

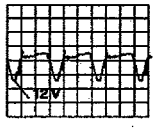

TP 40
0,5 V/div AC
20 µS/div


TP 4
0,2 V/div AC
10 µS/div

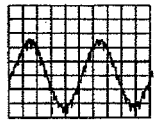

TP 11
0,5 V/div AC
10 µS/div

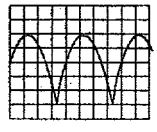

TP 17
1 V/div DC
20 mS/div

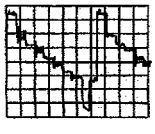

TP 23
1 V/div DC

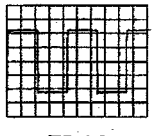


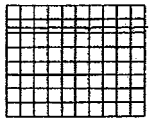
TP 28
0,5 V/div AC
5 µS/div

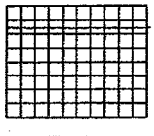

TP 33
2 V/div DC
0,2 mS/div

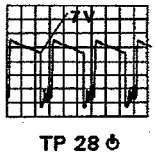

TP 41
2 V/div AC
5 mS/div


TP 5
0,1 V/div AC
10 µS/div

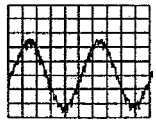

TP 12
1 V/div AC
10 µS/div

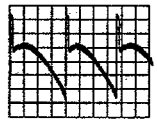

TP 18
2 V/div DC
20 mS/div

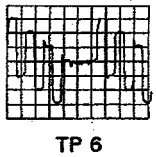

TP 24
5V/div DC

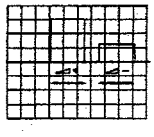


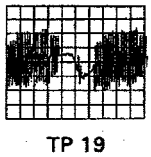
TP 28 ⏱
1 /div AC
10 mS/div

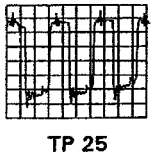

TP 34
2 V/div DC
20 µS/div

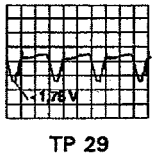

TP 41 a
5 V/div AC
5 mS/div


TP 6
0,2 V/div AC
10 µS/div

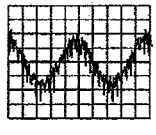

TP 13
1 V/div DC
1 S/div


TP 19
50 mV/div AC
10 µS/div

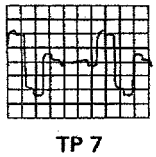

TP 25
0,2 V/div AC
5 µS/div

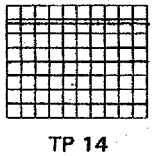


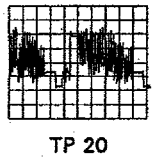
TP 29
0,5 V/div AC
5 µS/div

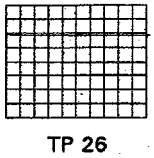

TP 35
50 mV/div DC
0,2 mS/div

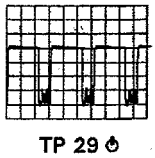
TP 41 b
5 V/div AC
5 mS/div

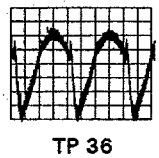

TP 7
0,2 V/div AC
10 µS/div

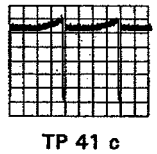

TP 14
1 V/div DC
0,5 mS/div

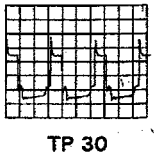

TP 20
0,5 V/div AC
10 µS/div

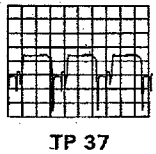

TP 26
1 V/div DC

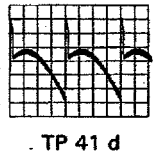

TP 29 ⏱
1 V/div A/C
10 mS/div


TP 36
0,2 V/div AC
5 mS/div


TP 41 c
0,1 V/div AC
5 mS/div

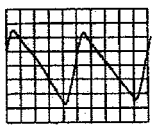

TP 30
2 V/div DC
5 µS/div


TP 37
2 V/div AC
20 µS/div

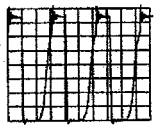

TP 41 d
5 V/div AC
5 mS/div

6.16 CHASSIS GR2.2

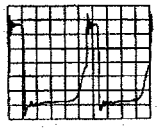
# Power supply / Stromversorgur



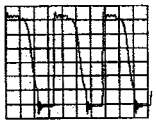
① 2 V/div AC
2 mS/div
280 V DC



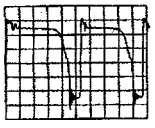
② 50 V/div AC
5 µS/div



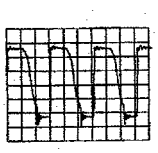
② ⏻ 50 V/div AC
5 µS/div



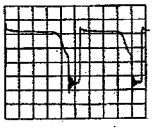
③ 50 V/div AC
5 µS/div



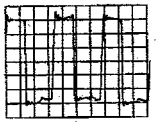
③ ⏻ 50 V/div AC
5 µS/div



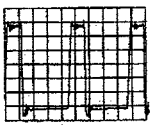
④ 5 V/div AC
5 µS/div



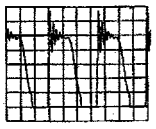
④ ⏻ 5 V/div AC
5 µS/div



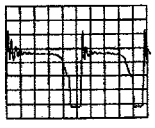
⑤ 0,5 V/div AC
5 µS/div



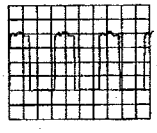
⑤ ⏻ 0,5 V/div AC
5 µS/div



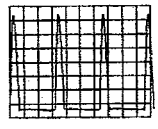
⑥ 100 V/div AC
5 µS/div



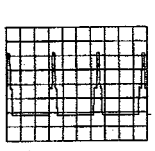
⑥ ⏻ 2 V/div AC
2 mS/div



⑦ 0,5 V/div AC
20 µS/div



⑧ 0,5 V/div AC
20 µS/div



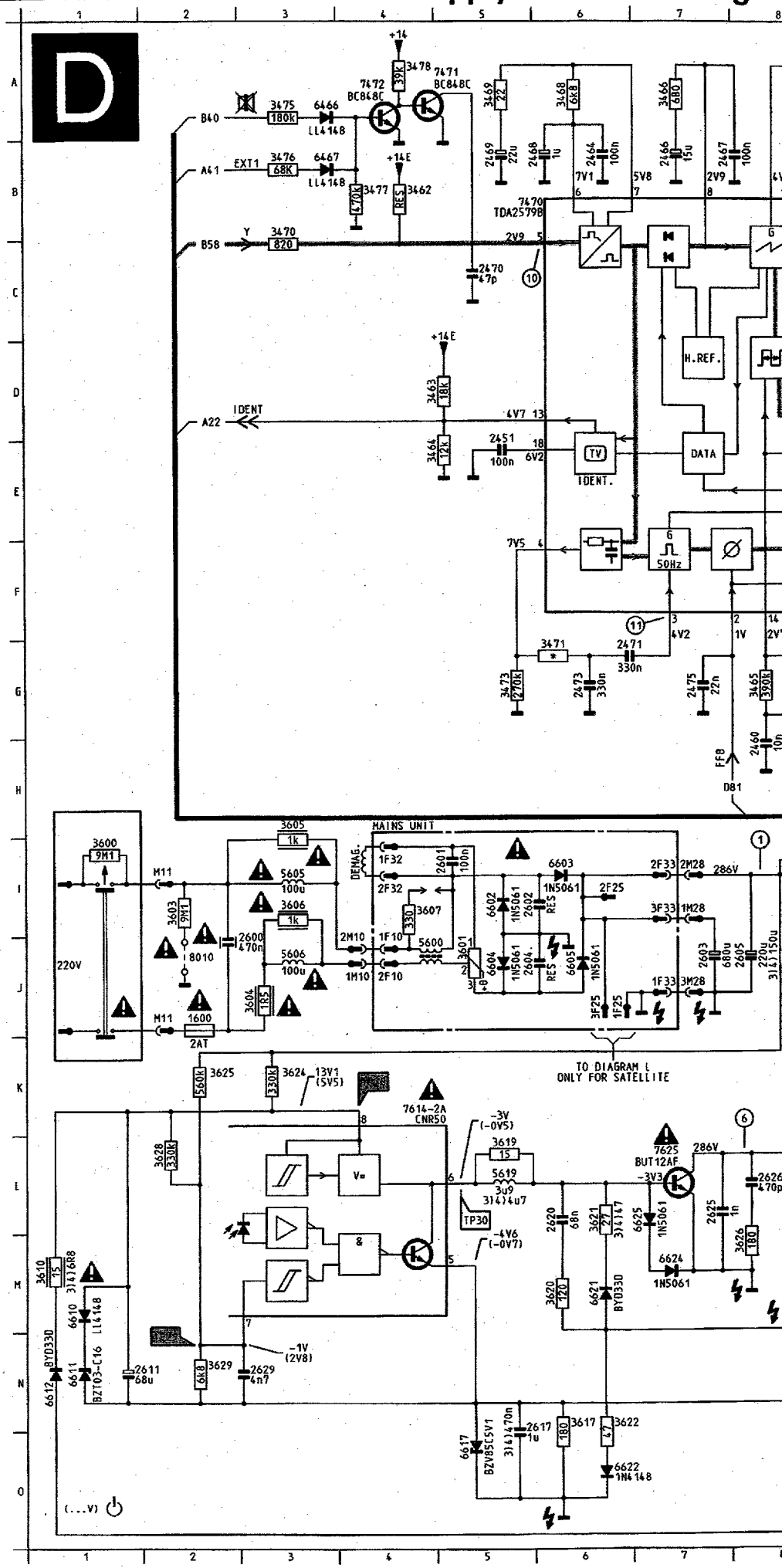
⑨ 2 V/div AC
20 µS/div



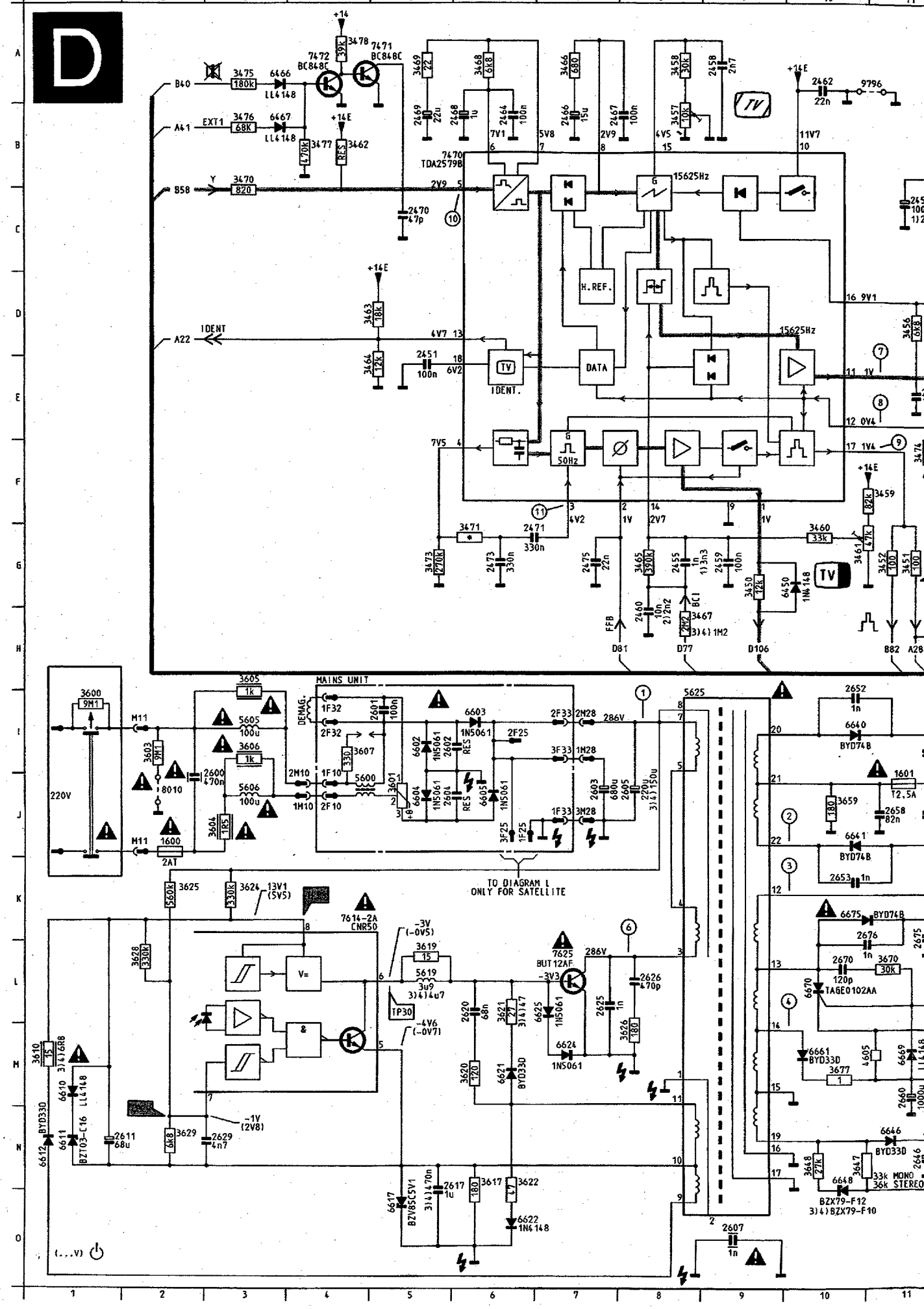
⑩ 0,5 V/div AC
5 mS/div

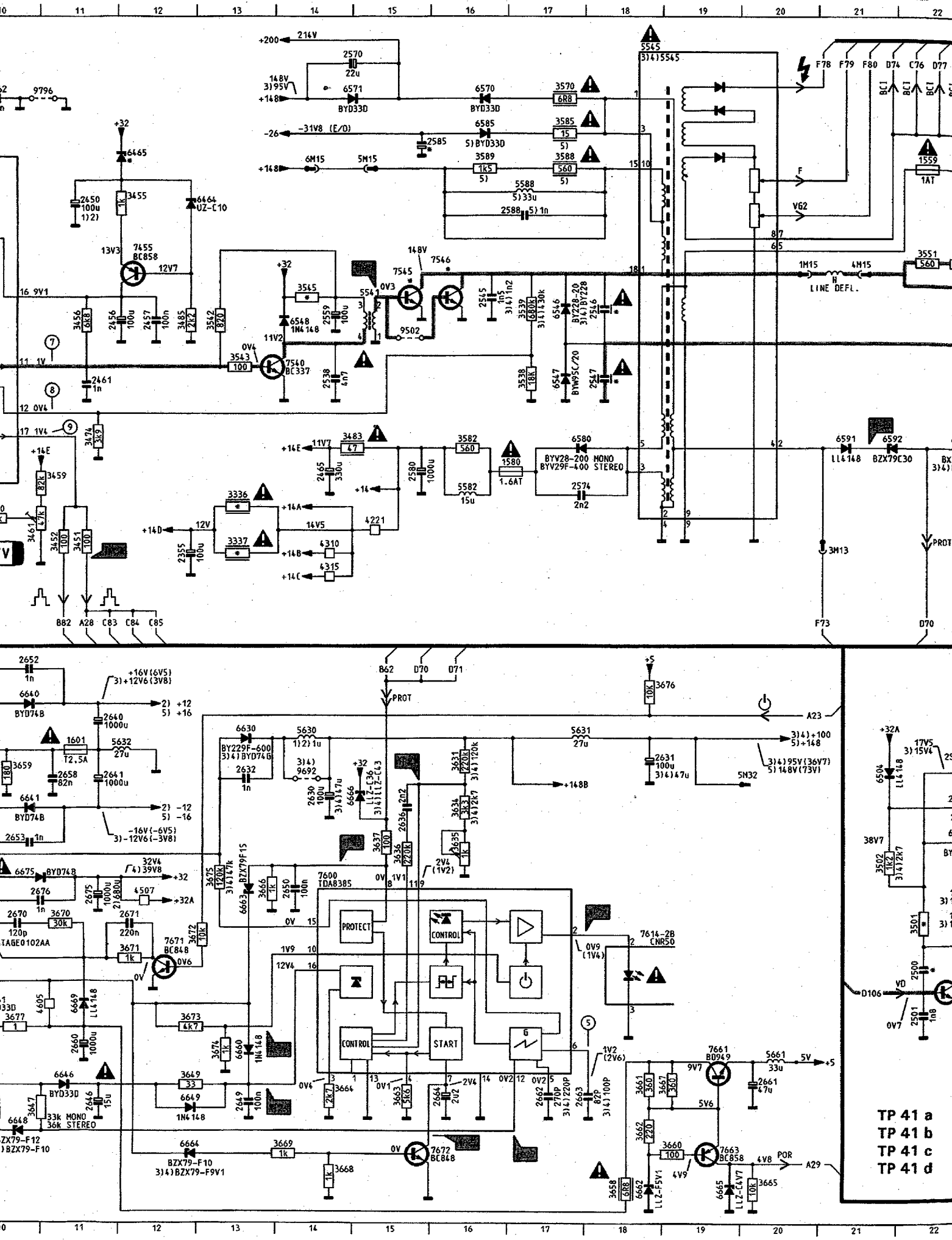


⑪ 0,5 V/div AC
5 mS/div

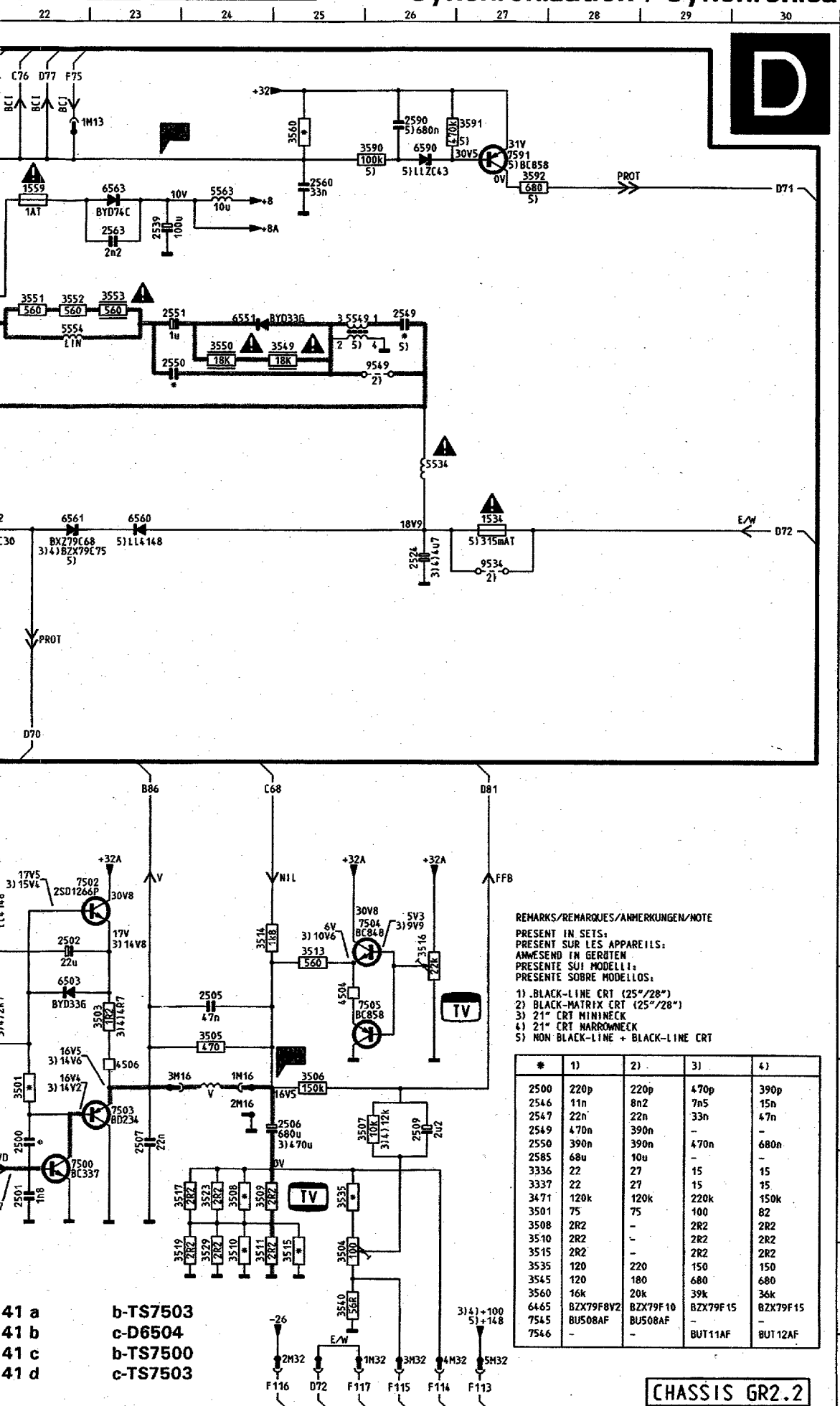


# Power supply / Stromversorgung / Alimentation




TP 41 a
TP 41 b
TP 41 c
TP 41 d
PROTECT
CONTROL
START
LINE DEFL.
BYV28-200 MONO
BYV29F-400 STEREO
7600 TDA8385
B82 A28 C83 C84 C85
F73 D70
B62 D70 D71
PROT
A23
A29
POR

# Synchronization / Synchronisation




| * | 1) | 2) | 3) | 4) |
|---|---|---|---|---|
| 2500 | 220p | 220p | 470p | 390p |
| 2546 | 11n | 8n2 | 7n5 | 15n |
| 2547 | 22n | 22n | 33n | 47n |
| 2549 | 470n | 390n | - | - |
| 2550 | 390n | 390n | 470n | 680n |
| 2585 | 68u | 10u | - | - |
| 3336 | 22 | 27 | 15 | 15 |
| 3337 | 22 | 27 | 15 | 15 |
| 3471 | 120k | 120k | 220k | 150k |
| 3501 | 75 | 75 | 100 | 82 |
| 3508 | 2R2 | - | 2R2 | 2R2 |
| 3510 | 2R2 | - | 2R2 | 2R2 |
| 3515 | 2R2 | - | 2R2 | 2R2 |
| 3535 | 120 | 220 | 150 | 150 |
| 3545 | 120 | 180 | 680 | 680 |
| 3560 | 16k | 20k | 39k | 36k |
| 6465 | BZX79F8V2 | BZX79F10 | BZX79F15 | BZX79F15 |
| 7545 | BU508AF | BU508AF | - | - |
| 7546 | - | - | BUT11AF | BUT12AF |

| | | | | | |
|---|---|---|---|---|---|
| 1534 | F27 | 3552 | C22 | 6649 | N12 |
| 1559 | B22 | 3553 | C23 | 6660 | M13 |
| 1580 | F17 | 3560 | B25 | 6661 | M10 |
| 1600 | J 2 | 3570 | A17 | 6662 | O18 |
| A 1601 | J11 | 3582 | F16 | 6663 | K13 |
| 2355 | G12 | 3585 | B17 | 6664 | O12 |
| 2450 | C11 | 3588 | B17 | 6665 | O19 |
| 2451 | E 5 | 3589 | B16 | 6666 | J15 |
| 2455 | G 8 | 3590 | B26 | 6669 | M11 |
| 2456 | D11 | 3591 | A27 | 6670 | L10 |
| 2457 | D12 | 3592 | B27 | 6675 | K10 |
| 2458 | A 9 | 3600 | I 1 | 7455 | C12 |
| B 2459 | G 9 | 3601 | J 5 | 7470 | B 6 |
| 2460 | H 8 | 3603 | I 2 | 7471 | A 5 |
| 2461 | E11 | 3604 | J 3 | 7472 | A 4 |
| 2462 | A10 | 3605 | H 3 | 7540 | E14 |
| 2464 | B 6 | 3606 | I 3 | 7545 | D15 |
| 2465 | F14 | 3607 | I 4 | 7546 | C16 |
| 2466 | B 7 | 3610 | M 1 | 7591 | B27 |
| 2467 | B 7 | 3617 | M 6 | 7600 | K14 |
| C 2468 | B 6 | 3619 | L 5 | 7614 | K 5 |
| 2469 | B 5 | 3620 | M 6 | 7614 | L19 |
| 2470 | C 5 | 3621 | L 6 | 7625 | L 7 |
| 2471 | G 6 | 3622 | N 6 | 7661 | M19 |
| 2473 | G 6 | 3624 | K 3 | 7663 | O19 |
| 2475 | G 7 | 3625 | K 2 | 7671 | L12 |
| 2524 | F26 | 3626 | M 8 | 7672 | O16 |
| D 2538 | E14 | 3628 | L 2 | 8010 | J 2 |
| 2539 | C23 | 3629 | N 2 | 9502 | D15 |
| 2545 | D16 | 3631 | J16 | 9534 | F27 |
| 2546 | D18 | 3634 | J16 | 9549 | D26 |
| 2547 | E18 | 3635 | K16 | 9692 | J14 |
| 2549 | D26 | 3636 | K15 | 9796 | A11 |
| 2550 | D23 | 3637 | K15 | | |
| 2551 | D23 | 3647 | N10 | | |
| E 2559 | D14 | 3648 | N10 | | |
| 2560 | B25 | 3649 | N12 | | |
| 2563 | C23 | 3658 | O18 | | |
| 2570 | A14 | 3659 | J10 | | |
| 2574 | F17 | 3660 | O19 | | |
| 2580 | F15 | 3661 | N18 | | |
| 2585 | B15 | 3662 | N18 | | |
| F 2588 | C17 | 3663 | N15 | | |
| 2590 | A26 | 3664 | N14 | | |
| 2600 | J 2 | 3665 | O20 | | |
| 2601 | I 5 | 3666 | K13 | | |
| 2602 | I 5 | 3667 | N19 | | |
| 2603 | J 7 | 3668 | O14 | | |
| 2604 | J 5 | 3669 | O14 | | |
| 2605 | J 8 | 3670 | L11 | | |
| G 2607 | O 9 | 3671 | L12 | | |
| 2611 | N 1 | 3672 | L12 | | |
| 2617 | N 5 | 3673 | M12 | | |
| 2620 | L 6 | 3674 | M13 | | |
| 2625 | L 7 | 3675 | K13 | | |
| 2626 | L 8 | 3676 | I18 | | |
| 2629 | N 3 | 3677 | M10 | | |
| H 2630 | J14 | 4221 | G15 | | |
| 2631 | J18 | 4310 | G14 | | |
| 2632 | J13 | 4315 | G14 | | |
| 2636 | J15 | 4507 | K12 | | |
| 2640 | I11 | 4605 | M11 | | |
| 2641 | J11 | 5534 | E26 | | |
| 2646 | N11 | 5541 | D15 | | |
| 2649 | N13 | 5545 | A18 | | |
| I 2650 | K14 | 5545 | A18 | | |
| 2652 | I10 | 5549 | D25 | | |
| 2653 | K10 | 5554 | D22 | | |
| 2658 | J11 | 5563 | B24 | | |
| 2660 | M11 | 5582 | F16 | | |
| 2661 | N20 | 5588 | B17 | | |
| 2662 | N17 | 5600 | J 4 | | |
| J 2663 | N17 | 5605 | I 3 | | |
| 2664 | N16 | 5606 | J 3 | | |
| 2670 | L10 | 5619 | L 5 | | |
| 2671 | L12 | 5625 | I 8 | | |
| 2675 | K11 | 5630 | I14 | | |
| 2676 | K11 | 5631 | I17 | | |
| 3336 | F13 | 5632 | J12 | | |
| 3337 | G13 | 5661 | N20 | | |
| K 3450 | G 9 | 6450 | G10 | | |
| 3451 | G11 | 6464 | C12 | | |
| 3452 | G11 | 6465 | B12 | | |
| 3455 | C12 | 6466 | A 3 | | |
| 3456 | D11 | 6467 | B 3 | | |
| 3457 | B 8 | 6546 | D17 | | |
| 3458 | A 8 | 6547 | E17 | | |
| 3459 | F11 | 6548 | D14 | | |
| L 3460 | G10 | 6551 | D24 | | |
| 3461 | G10 | 6560 | F23 | | |
| 3462 | B 4 | 6561 | F22 | | |
| 3463 | D 5 | 6563 | B23 | | |
| 3464 | E 5 | 6570 | A16 | | |
| 3465 | G 8 | 6571 | A14 | | |
| 3466 | A 7 | 6580 | F17 | | |
| M 3467 | H 8 | 6585 | B16 | | |
| 3468 | A 6 | 6590 | B26 | | |
| 3469 | A 5 | 6591 | F21 | | |
| 3470 | B 3 | 6592 | F21 | | |
| 3471 | G 6 | 6602 | I 5 | | |
| 3473 | G 5 | 6603 | I 6 | | |
| 3474 | F11 | 6604 | J 5 | | |
| N 3475 | A 3 | 6605 | J 6 | | |
| 3476 | B 3 | 6610 | M 1 | | |
| 3477 | B 4 | 6611 | N 1 | | |
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| 3483 | F14 | 6617 | O 5 | | |
| 3485 | D12 | 6621 | M 6 | | |
| 3538 | E17 | 6622 | O 6 | | |
| 3539 | O17 | 6624 | M 7 | | |
| 3542 | D13 | 6625 | L 7 | | |
| O 3543 | E13 | 6630 | I13 | | |
| 3545 | D14 | 6640 | I10 | | |
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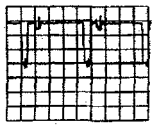
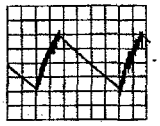
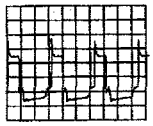


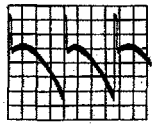
TP 21
0,5 V/div DC
5 µS/div



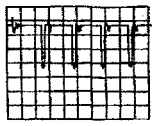
TP 26 ⏱
0,1 V/div AC
5 mS/div



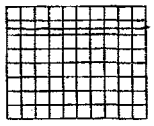
TP 30
2 V/div DC
5 µS/div



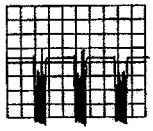
TP 41 a
5 V/div AC
5 mS/div



TP 21 ⏱
0,5 V/div DC
10 µS/div

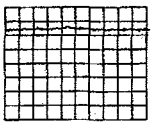


TP 27
1 V/div DC

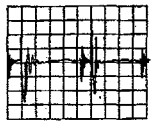


TP 30 ⏱
1 V/div DC
10 mS/div

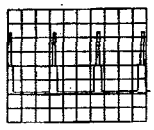
TP 41 b
5 V/div AC
5 mS/div



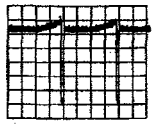
TP 22
1 V/div DC



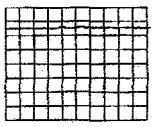
TP 27 ⏱
50 mV/div AC
10 mS/div



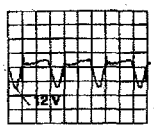
TP 31
2 V/div DC
20 µS/div



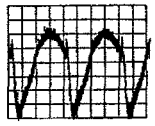
TP 41 c
0,1 V/div AC
5 mS/div



TP 23
1 V/div DC

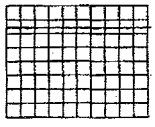



TP 28
0,5 V/div AC
5 µS/div

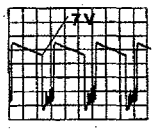


TP 36
0,2 V/div AC
5 mS/div

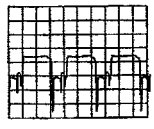
TP 41 d
5 V/div AC
5 mS/div



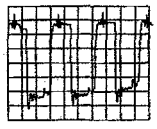
TP 24
5V/div DC



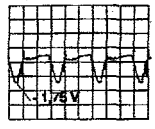

TP 28 ⏱
1 /div AC
10 mS/div



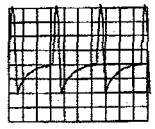
TP 37
2 V/div AC
20 µS/div



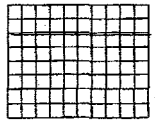
TP 25
0,2 V/div AC
5 µS/div



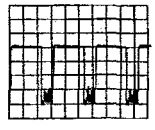

TP 29
0,5 V/div AC
5 µS/div



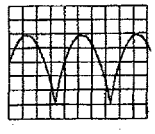
TP 38
20 mV/div AC
20 µS/div



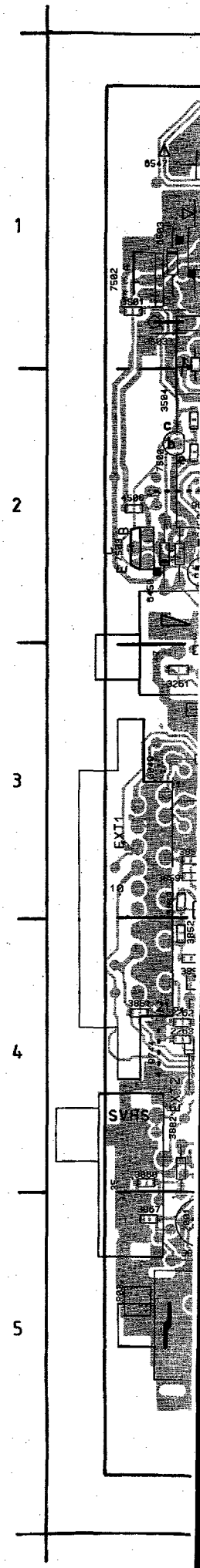
TP 26
1 V/div DC



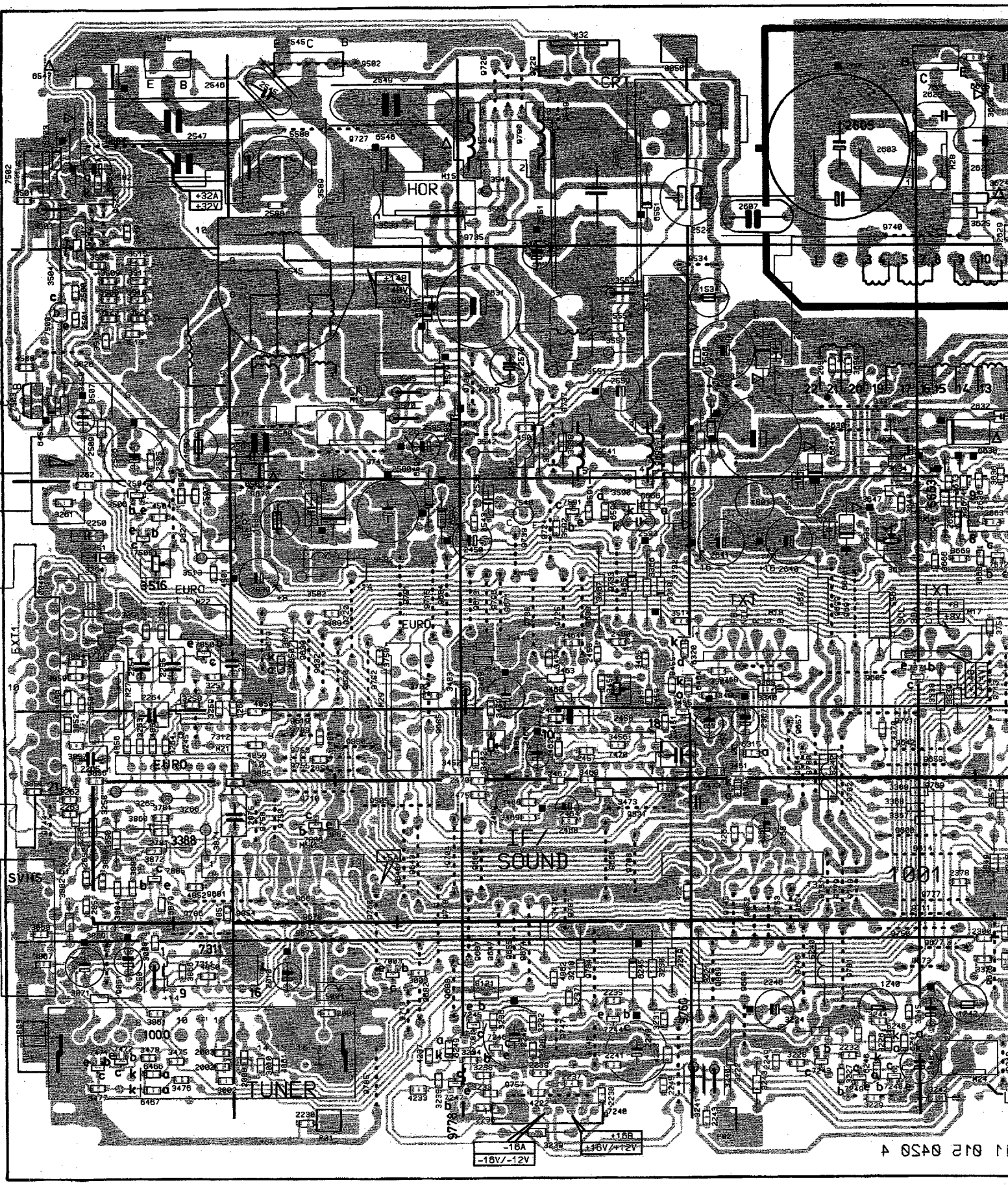
TP 29 ⏱
1 V/div AC
10 mS/div

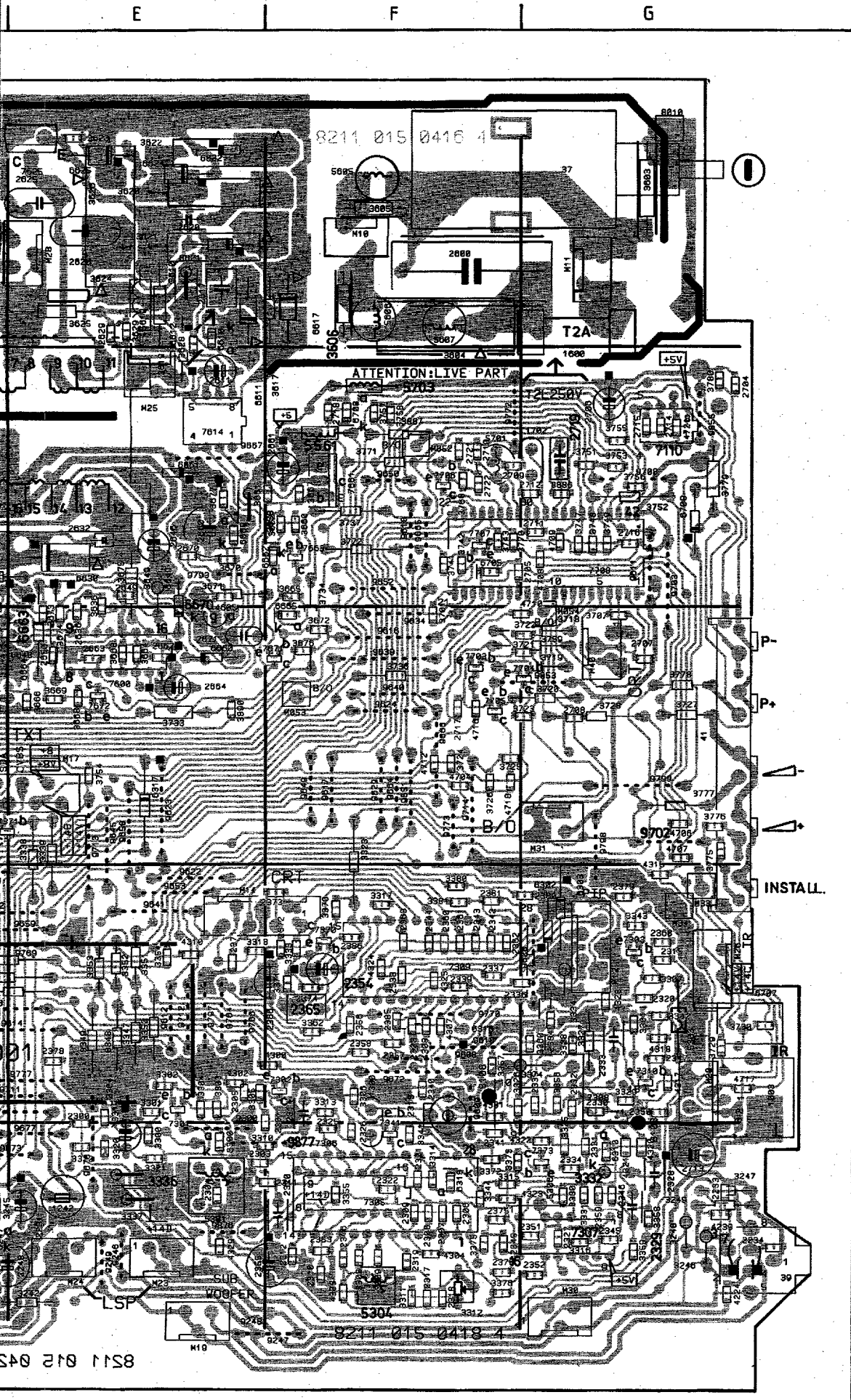


TP 41
2 V/div AC
5 mS/div



# Monocarrier / Hauptplatine / Châssis



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| | M13 B2 | 2344 F4 | 2715 G2 | 3361 G |
| | M14 E4 | 2345 G5 | 2716 G2 | 3362 F |
| | M15 B1 | 2346 G5 | 2717 F3 | 3365 D |
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| | M17 D3 | 2349 F5 | 2719 F2 | 3367 D |
| | M18 C3 | 2350 G5 | 2721 F2 | 3368 D |
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| | M20 G4 | 2352 F5 | 2781 A4 | 3370 F |
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| | M22 A3 | 2354 F4 | 2851 A4 | 3372 F |
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| | 2332 G5 | 2676 D2 | 3349 E4 | 3660 E |
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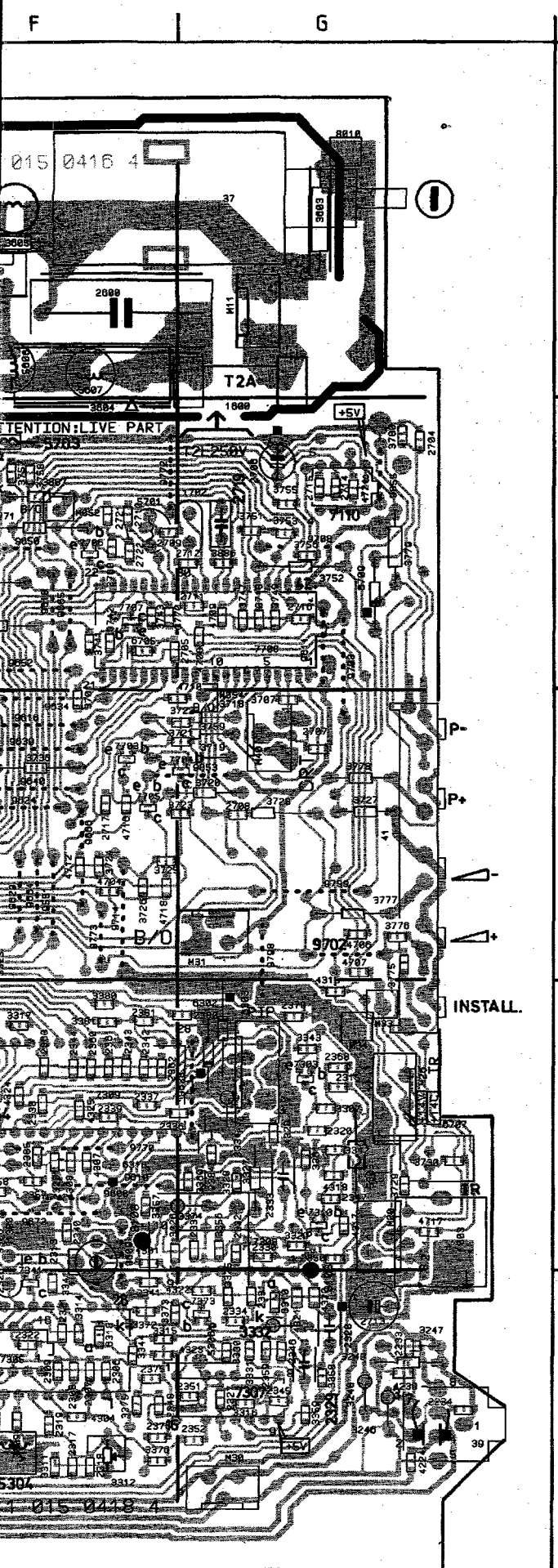


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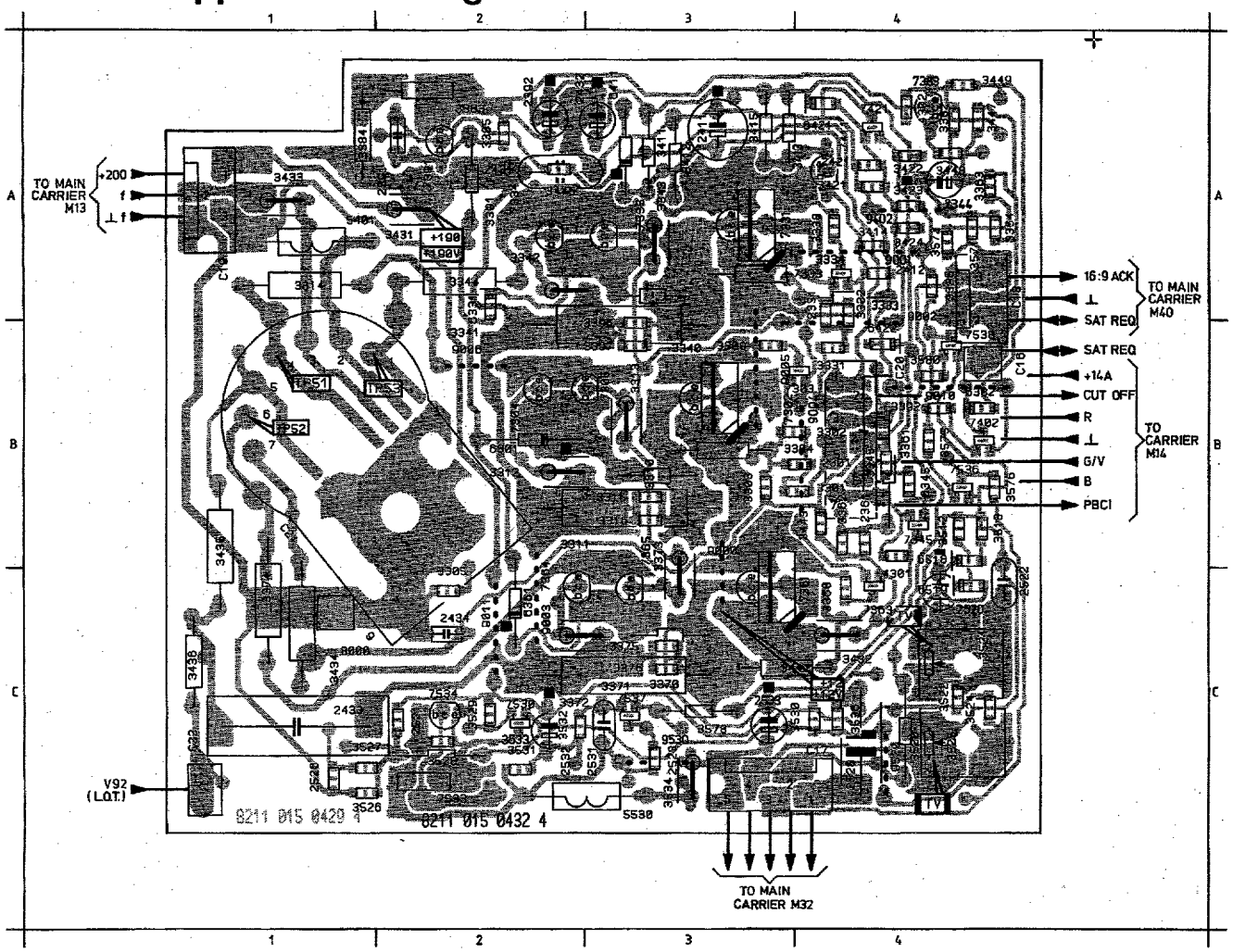
# Picture tube module "narrowneck" / Bildröhren Modul "narrowneck" / Module support tube image "narrowneck"

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## Loud speaker module
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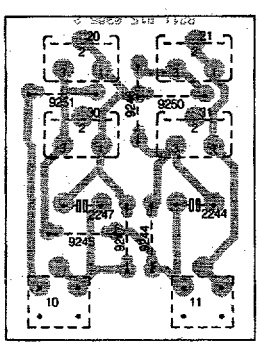
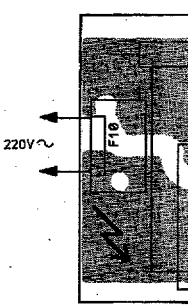
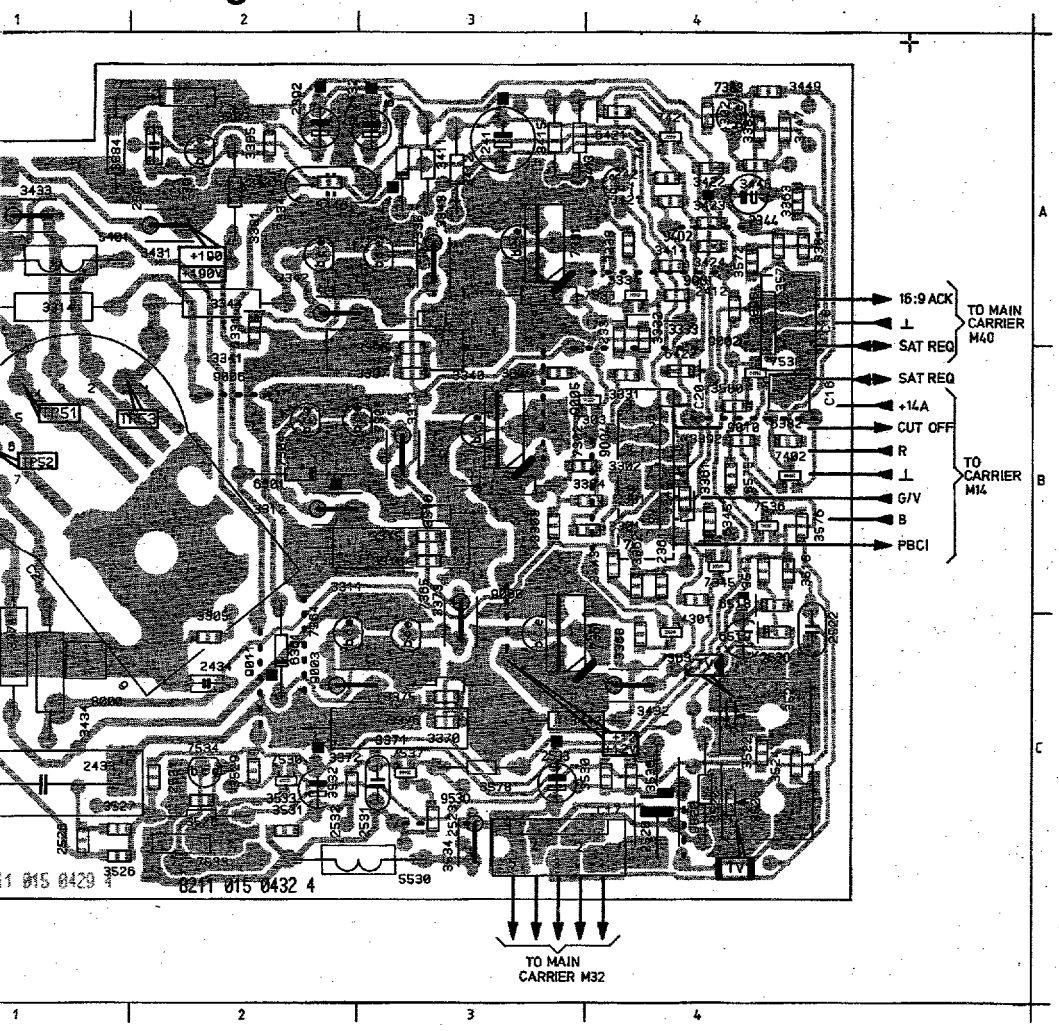



## Mains
## Netzteil
## Module



# nodule "narrowneck" / Bildröhren Modul "narrowneck" / ort tube image "narrowneck"

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## dule
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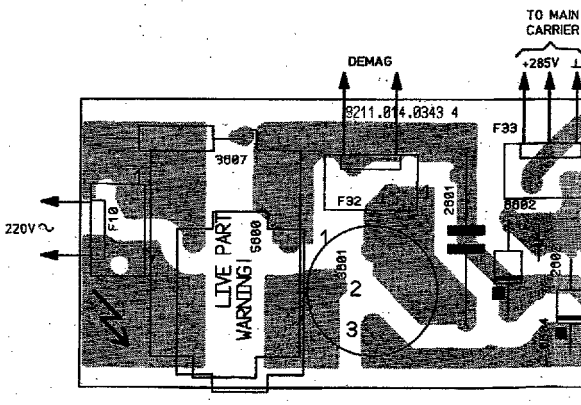
## Mains module
## Netzteil
## Module secteur



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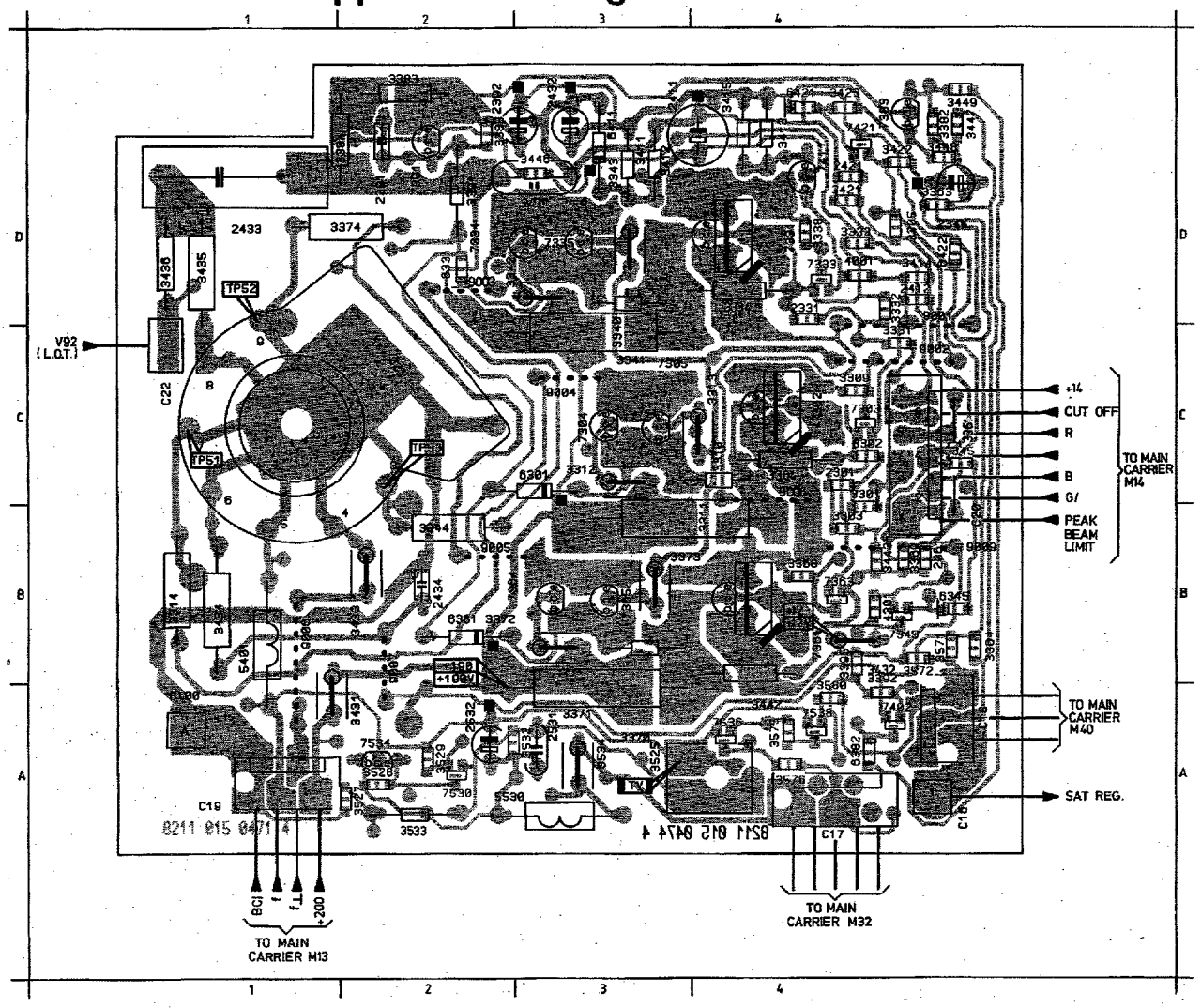


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| C22 | D1 | 3442 | B4 |
| 2301 | C4 | 3443 | B4 |
| 2331 | D4 | 3446 | D3 |
| 2344 | D4 | 3447 | D4 |
| 2361 | B4 | 3448 | D4 |
| 2391 | D2 | 3449 | D4 |
| 2392 | D3 | 3525 | A4 |
| 2411 | D4 | 3527 | A2 |
| 2412 | D4 | 3528 | A2 |
| 2421 | D4 | 3529 | A3 |
| 2431 | D3 | 3532 | A3 |
| 2433 | D1 | 3533 | A2 |
| 2434 | B3 | 3534 | A3 |
| 2531 | A3 | 3571 | B4 |
| 2532 | A3 | 3572 | B4 |
| 3301 | C4 | 3575 | A4 |
| 3302 | C4 | 3576 | A4 |
| 3303 | B4 | 3580 | A4 |
| 3304 | C4 | 4001 | D4 |
| 3305 | D4 | 4301 | B4 |
| 3309 | C4 | 5401 | B2 |
| 3310 | C4 | 6301 | C3 |
| 3311 | B4 | 6331 | D3 |
| 3312 | C4 | 6345 | B4 |
| 3313 | C4 | 6361 | B3 |
| 3314 | B1 | 6382 | A4 |
| 3331 | C4 | 6411 | D3 |
| 3332 | D4 | 6422 | D4 |
| 3333 | D4 | 7302 | C4 |
| 3334 | D4 | 7303 | C4 |
| 3338 | D4 | 7304 | C4 |
| 3340 | D4 | 7305 | C4 |
| 3341 | D4 | 7331 | D4 |
| 3342 | D3 | 7333 | D4 |
| 3343 | D4 | 7334 | D3 |
| 3344 | B3 | 7335 | D3 |
| 3345 | C4 | 7345 | B4 |
| 3361 | C4 | 7361 | B4 |
| 3362 | B4 | 7363 | B4 |
| 3363 | D4 | 7364 | B3 |
| 3364 | B4 | 7365 | B4 |
| 3368 | B4 | 7391 | D2 |
| 3370 | B4 | 7402 | A4 |
| 3371 | B4 | 7411 | D4 |
| 3372 | B3 | 7421 | D4 |
| 3373 | B4 | 7530 | A3 |
| 3374 | D2 | 7534 | A2 |
| 3384 | D2 | 7536 | A4 |
| 3385 | D3 | 7538 | A4 |
| 3391 | D3 | 8100 | A1 |
| 3392 | A4 | 9001 | D4 |
| 3395 | B4 | 9002 | C4 |
| 3411 | D4 | 9003 | D3 |
| 3412 | D4 | 9004 | C3 |
| 3413 | D4 | 9005 | B3 |
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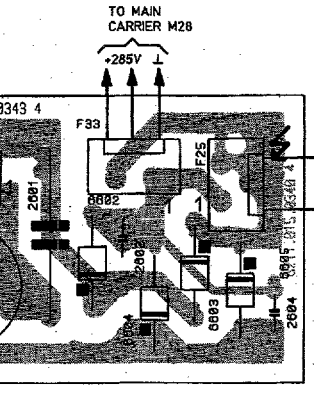
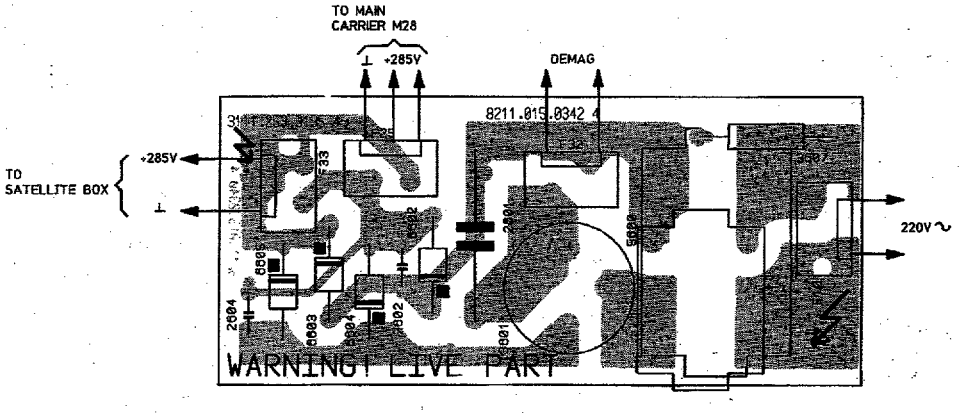
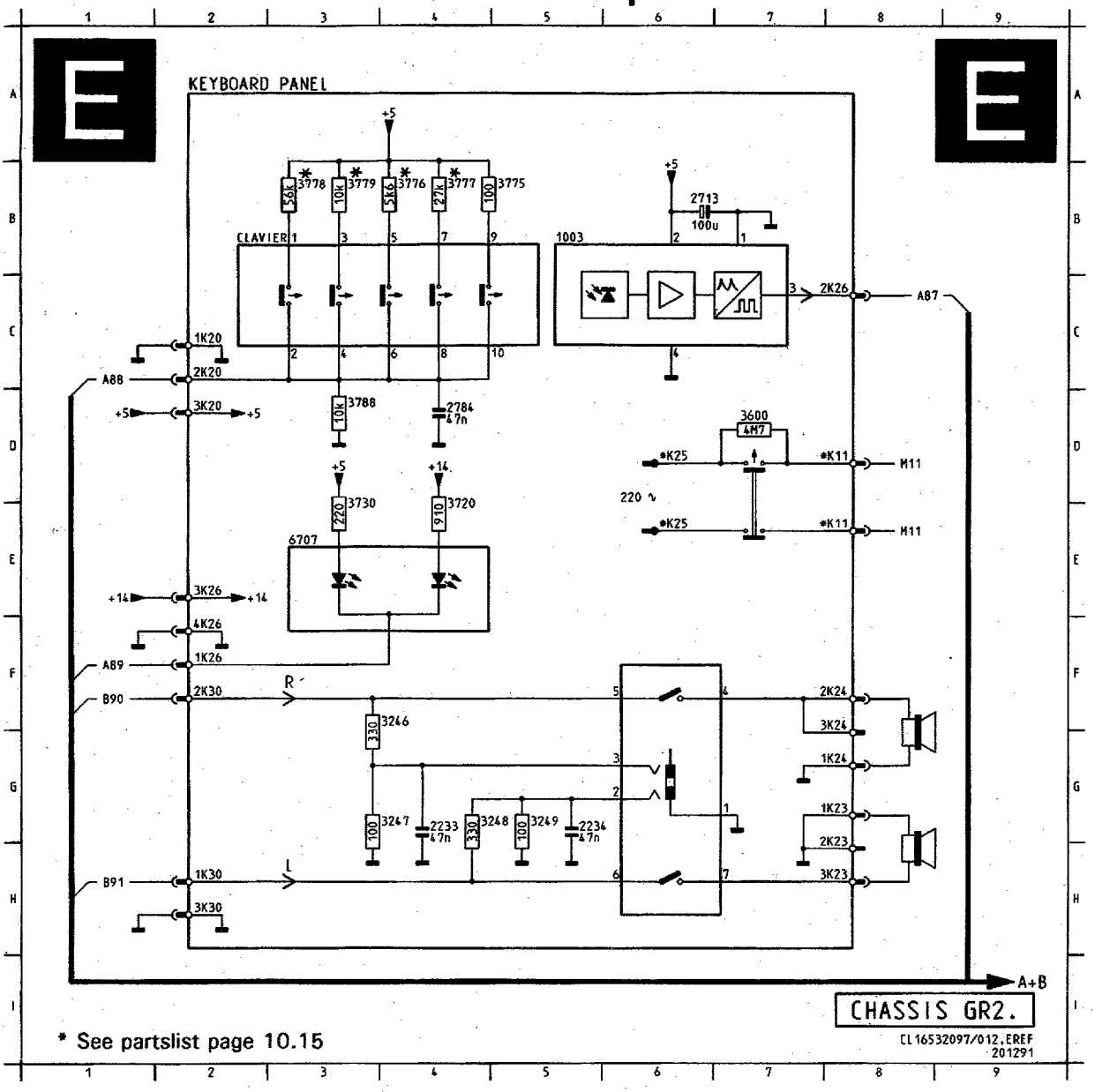


# Separate Controle/Separate Bedienung/ Commande séparée




* See partslist page 10.15

1003 B 5
2233 G 4
2234 G 5
2713 B 6
2784 D 4
3246 F 3
3247 G 3
3248 G 4
3249 G 5
3600 D 7
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3730 D 3
3775 B 5
3776 B 4
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3778 B 3
3779 B 3
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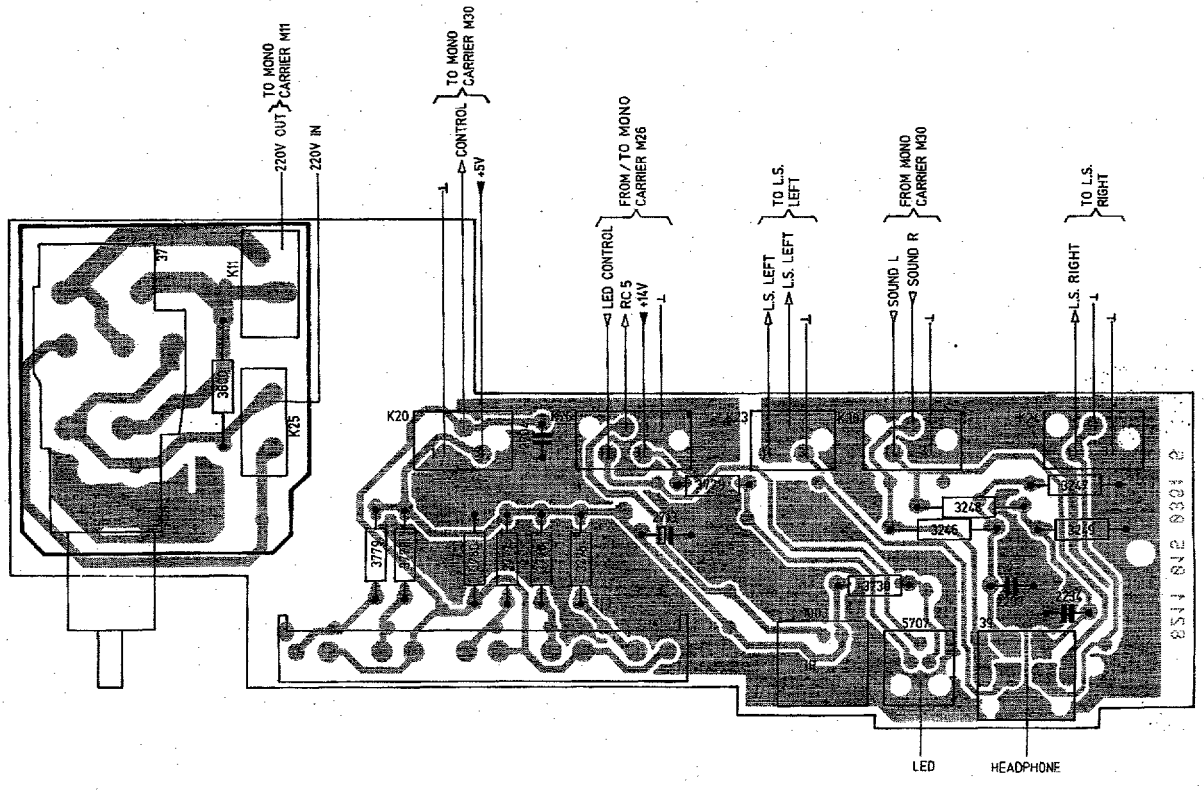
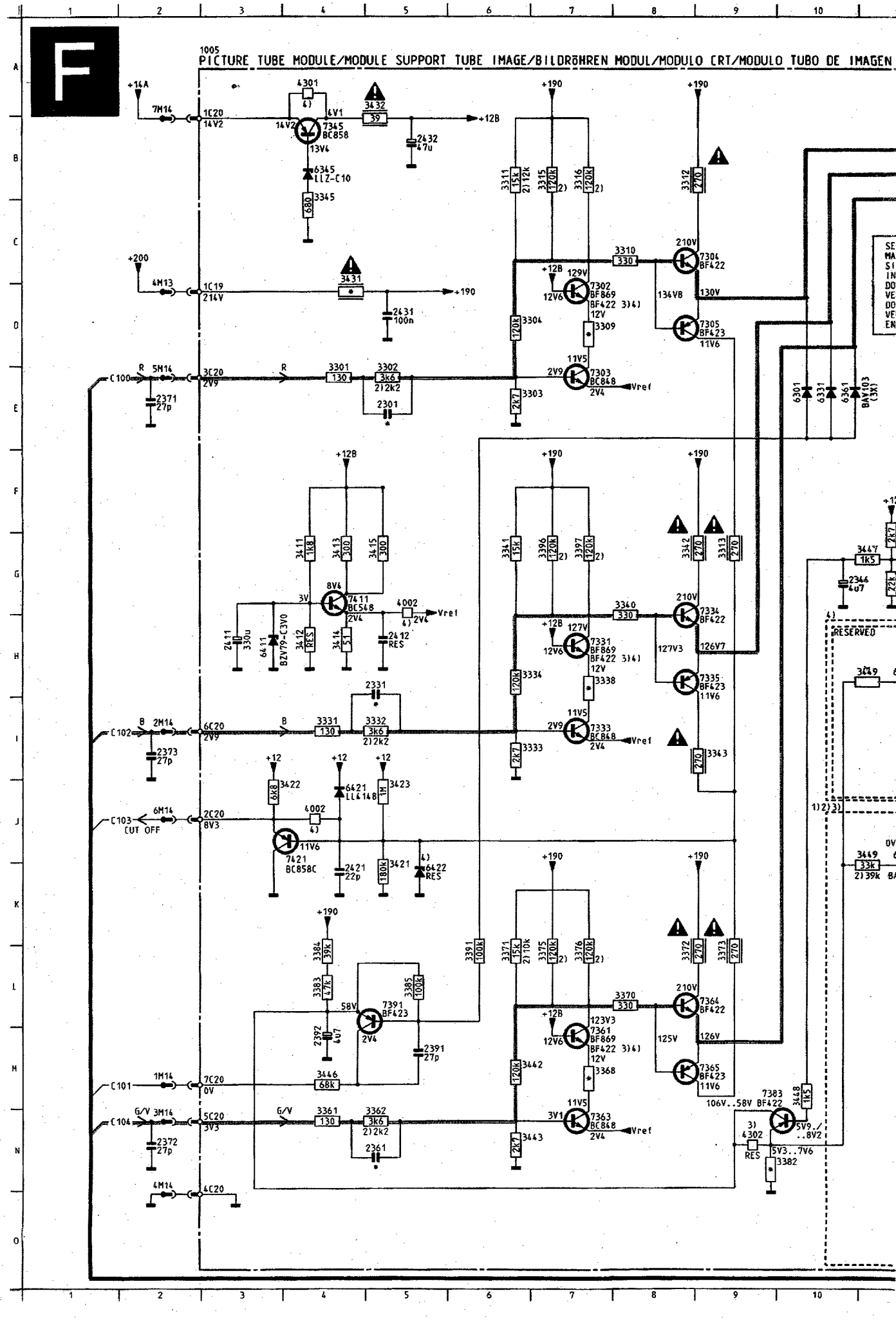
6707 E 3




F
1005
PICTURE TUBE MODULE/MODULE SUPPORT TUBE IMAGE/BILDRÖHREN MODUL/MODULO CRT/MODULO TUBO DE IMAGEN
+14A
7M14
1C20
14V2
4301
4j
14V2
6V1
7345
BC858
13V4
3432
39
+12B
2432
47u
6345
LLZ-C10
3345
680
+200
4M13
1C19
21V
3431
+190
2631
100n
3311
15k
3315
120k
3316
120k
2)
3312
270
3310
330
210V
7304
BF422
+12B
129V
7302
BF869
BF422 3)4)
12V6
12V
3309
134V8
130V
7305
BF423
11V6
3304
120k
11V5
2V9
7303
BC848
2V4
Vref
3303
2k7
C100
R
5M14
3C20
2V9
2371
27p
3301
130
3302
3k6
2k2
2301
6301
6331
6361
BAV103
(3X)
+12B
3411
1k8
3413
300
3415
300
8V4
7411
BC548
2V4
3V
4002
4j
2V4
Vref
2411
330u
6411
BZV79-C3V0
3412
RES
3414
5k1
2412
RES
3341
15k
3396
120k
2)
3397
120k
2)
3342
270
3313
270
3447
1k5
2344
4u7
3340
330
210V
7334
BF422
+12B
127V
7331
BF869
BF422 3)4)
12V6
12V
3338
127V3
126V7
7335
BF423
11V6
3334
120k
11V5
2V9
7333
BC848
2V4
Vref
2k7
3333
3343
270
RESERVED
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C102
B
2M14
6C20
2V9
B
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130
3332
3k6
2k2
2373
27p
+12
3422
6k8
6421
LL4148
3423
1k
C103
CUT OFF
6M14
2C20
8V3
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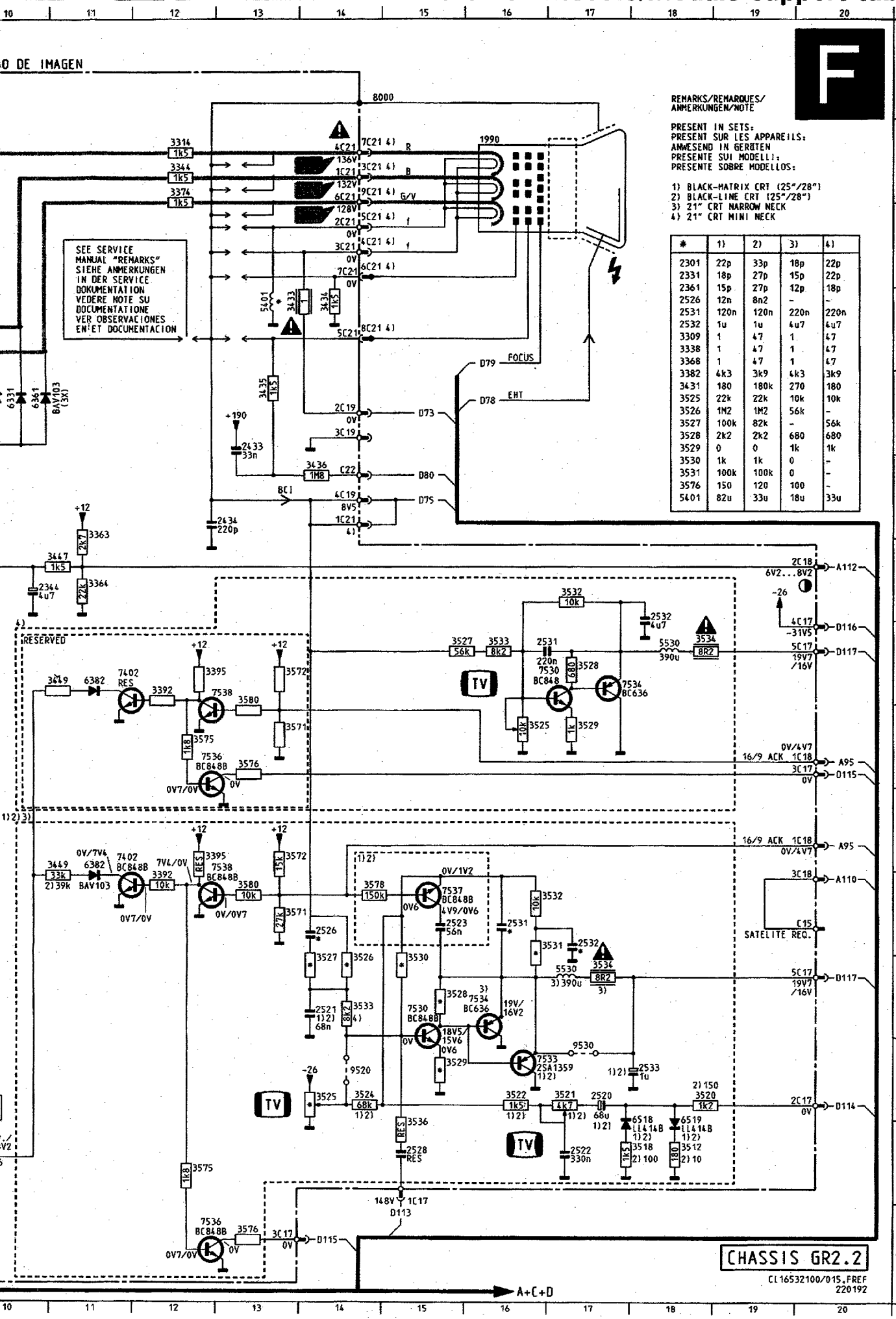
4j
11V6
7421
BC858C
2421
22p
3421
180k
4j
6422
RES
3449
33k
2)39k
+190
3384
39k
3383
4.7k
3385
100k
58V
7391
BF423
2V4
2392
4u7
2391
27p
3391
100k
3371
15k
2)10k
3375
120k
2)
3376
120k
2)
3372
270
3373
270
3370
330
210V
7364
BF422
+12B
123V3
7361
BF869
BF422 3)4)
12V6
12V
3368
125V
126V
7365
BF423
11V6
106V..58V
3442
120k
11V5
3V1
7363
BC848
2V4
Vref
3443
2k7
C101
1M14
7C20
0V
3446
68k
C104
G/V
3M14
5C20
3V3
G/V
3361
130
3362
3k6
2k2
2361
2372
27p
4M14
4C20
7383
BF422
3448
1k5
3)
4302
RES
5V9../..8V2
5V3..7V6
3382

# Bildröhren Module/Module support tube image




| * | 1) | 2) | 3) | 4) |
|---|---|---|---|---|
| 2301 | 22p | 33p | 18p | 22p |
| 2331 | 18p | 27p | 15p | 22p |
| 2361 | 15p | 27p | 12p | 18p |
| 2526 | 12n | 8n2 | - | - |
| 2531 | 120n | 120n | 220n | 220n |
| 2532 | 1u | 1u | 4u7 | 4u7 |
| 3309 | 1 | 47 | 1 | 47 |
| 3338 | 1 | 47 | 1 | 47 |
| 3368 | 1 | 47 | 1 | 47 |
| 3382 | 4k3 | 3k9 | 4k3 | 3k9 |
| 3431 | 180 | 180k | 270 | 180 |
| 3525 | 22k | 22k | 10k | 10k |
| 3526 | 1M2 | 1M2 | 56k | - |
| 3527 | 100k | 82k | - | 56k |
| 3528 | 2k2 | 2k2 | 680 | 680 |
| 3529 | 0 | 0 | 1k | 1k |
| 3530 | 1k | 1k | 0 | - |
| 3531 | 100k | 100k | 0 | - |
| 3576 | 150 | 120 | 100 | - |
| 5401 | 82u | 33u | 18u | 33u |


1005 A 2 3534 H
1990 B16 3534 L
2301 E 5 3536 M
2331 H 5 3571 I
2344 G10 3571 K
2361 N 5 3572 H
2371 E 2 3572 J
2372 N 2 3575 M
2373 I 2 3575 I
2391 M 5 3576 I
2392 M 4 3576 D
2411 H 3 3578 K
2412 H 5 3580 H
2421 K 4 3580 K
2431 D 5 4002 J
2432 B 5 4002 G
2433 E13 4301 A
2434 F13 4302 N
2520 M17 5401 D
2521 L14 5530 H
2522 N17 5530 L
2523 K15 6301 E
2526 K14 6331 E
2528 N15 6345 B
2531 H16 6361 E
2531 K16 6382 H
2532 G18 6382 J
2532 K17 6411 H
3301 E 4 6421 J
3302 E 5 6422 K
3303 E 6 6518 N
3304 D 6 6519 N
3309 D 7 7302 D
3310 C 8 7303 E
3311 B 6 7304 C
3312 B 8 7305 D
3313 G 9 7331 H
3314 B12 7333 I
3315 B 7 7334 H
3316 B 7 7335 H
3331 I 4 7345 B
3332 I 5 7361 M
3333 I 6 7363 N
3334 H 6 7366 L
3338 H 7 7365 M
3340 G 8 7383 M
3341 G 6 7391 L
3342 G 8 7402 H
3343 I 9 7402 J
3344 B12 7411 G
3345 B 4 7421 J
3361 N 4 7530 H
3362 N 5 7530 L
3363 F11 7533 M
3364 G11 7534 H
3368 M 7 7534 L
3370 L 8 7536 O
3371 L 6 7536 I
3372 L 8 7537 K
3373 L 9 7538 H
3374 B12 7538 K
3375 L 7 9530 N
3376 L 7
3382 N 9
3383 L 4
3384 L 4
3385 L 5
3391 L 6
3392 K12
3392 H12
3395 H12
3395 J12
3396 G 7
3397 G 7
3411 G 4
3412 H 4
3413 G 4
3414 H 4
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3421 J 5
3422 J 3
3423 J 5
3431 D 4
3432 A 5
3433 D13
3434 D14
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3436 F14
3442 M 6
3443 N 6
3446 M 4
3447 G11
3448 M10
3449 H11
3449 J11
3512 N18
3518 N18
3520 M18
3521 M17
3522 M16
3524 M14
3525 I16
3525 M14
3526 K14
3527 H15
3527 K14
3528 H17
3528 L15
3529 I17
3529 M15
3530 K15
3531 K16
3532 G17
3532 K16
3533 H16
3533 L14

# image

| | | | |
|---|---|---|---|
| 005 | A 2 | 3534 | H18 |
| 990 | B16 | 3534 | L17 |
| 801 | E 5 | 3536 | M15 |
| 831 | H 5 | 3571 | I13 |
| 844 | G10 | 3571 | K13 |
| 861 | N 5 | 3572 | H13 |
| 871 | E 2 | 3572 | J13 |
| 872 | N 2 | 3575 | N12 |
| 873 | I 2 | 3575 | I12 |
| 891 | M 5 | 3576 | I13 |
| 892 | M 4 | 3576 | O13 |
| 11 | H 3 | 3578 | K14 |
| 12 | H 5 | 3580 | H13 |
| 21 | K 4 | 3580 | K13 |
| 31 | D 5 | 4002 | J 4 |
| 32 | B 5 | 4002 | G 5 |
| 33 | E13 | 4301 | A 4 |
| 34 | F13 | 4302 | N 9 |
| 20 | M17 | 5401 | D13 |
| 21 | L14 | 5530 | H18 |
| 22 | N17 | 5530 | L17 |
| 23 | K15 | 6301 | E10 |
| 26 | K14 | 6331 | E10 |
| 28 | N15 | 6345 | B 4 |
| 31 | H16 | 6361 | E10 |
| 31 | K16 | 6382 | H11 |
| 32 | G18 | 6382 | J11 |
| 32 | K17 | 6411 | H 3 |
| 801 | E 4 | 6421 | J 4 |
| 802 | E 5 | 6422 | K 5 |
| 803 | E 6 | 6518 | N18 |
| 804 | D 6 | 6519 | N18 |
| 809 | D 7 | 7302 | D 7 |
| 810 | C 8 | 7303 | E 7 |
| 811 | B 6 | 7304 | C 9 |
| 812 | B 8 | 7305 | D 9 |
| 813 | G 9 | 7331 | H 7 |
| 814 | B12 | 7333 | I 7 |
| 815 | B 7 | 7334 | H 9 |
| 816 | B 7 | 7335 | H 9 |
| 831 | I 4 | 7345 | B 4 |
| 832 | I 5 | 7361 | M 7 |
| 833 | I 6 | 7363 | N 7 |
| 834 | H 6 | 7364 | L 9 |
| 838 | H 7 | 7365 | M 9 |
| 840 | G 8 | 7383 | M10 |
| 841 | G 6 | 7391 | L 5 |
| 842 | G 8 | 7402 | H11 |
| 843 | I 9 | 7402 | J11 |
| 844 | B12 | 7411 | G 4 |
| 845 | B 4 | 7421 | J 4 |
| 861 | N 4 | 7530 | H17 |
| 862 | N 5 | 7530 | L15 |
| 863 | F11 | 7533 | M16 |
| 864 | G11 | 7534 | H17 |
| 868 | M 7 | 7534 | L16 |
| 870 | L 8 | 7536 | O12 |
| 871 | L 6 | 7536 | I12 |
| 872 | L 8 | 7537 | K15 |
| 873 | L 9 | 7538 | H12 |
| 874 | B12 | 7538 | K12 |
| 875 | L 7 | 9530 | M17 |
| 876 | L 7 | | |
| 882 | N 9 | | |
| 883 | L 4 | | |
| 884 | L 4 | | |
| 885 | L 5 | | |
| 891 | L 6 | | |
| 892 | K12 | | |
| 892 | H12 | | |
| 895 | H12 | | |
| 895 | J12 | | |
| 896 | G 7 | | |
| 897 | G 7 | | |
| 11 | G 4 | | |
| 12 | H 4 | | |
| 13 | G 4 | | |
| 14 | H 4 | | |
| 15 | G 5 | | |
| 21 | J 5 | | |
| 22 | J 3 | | |
| 23 | J 5 | | |
| 31 | D 4 | | |
| 32 | A 5 | | |
| 33 | D13 | | |
| 34 | D14 | | |
| 35 | E13 | | |
| 36 | F14 | | |
| 42 | M 6 | | |
| 43 | N 6 | | |
| 46 | M 4 | | |
| 47 | G11 | | |
| 48 | M10 | | |
| 49 | H11 | | |
| 49 | J11 | | |
| 12 | N18 | | |
| 18 | N18 | | |
| 20 | M18 | | |
| 21 | M17 | | |
| 22 | M16 | | |
| 24 | M14 | | |
| 25 | L16 | | |
| 25 | M14 | | |
| 26 | K14 | | |
| 27 | H15 | | |
| 27 | K14 | | |
| 28 | H17 | | |
| 28 | L15 | | |
| 29 | I17 | | |
| 29 | M15 | | |
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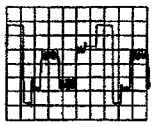
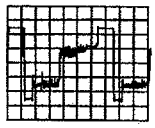
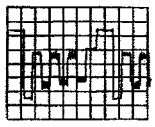


**TP 51**
**130 $V_{pp}$**
**115 $V_{pp}$ for 21"**

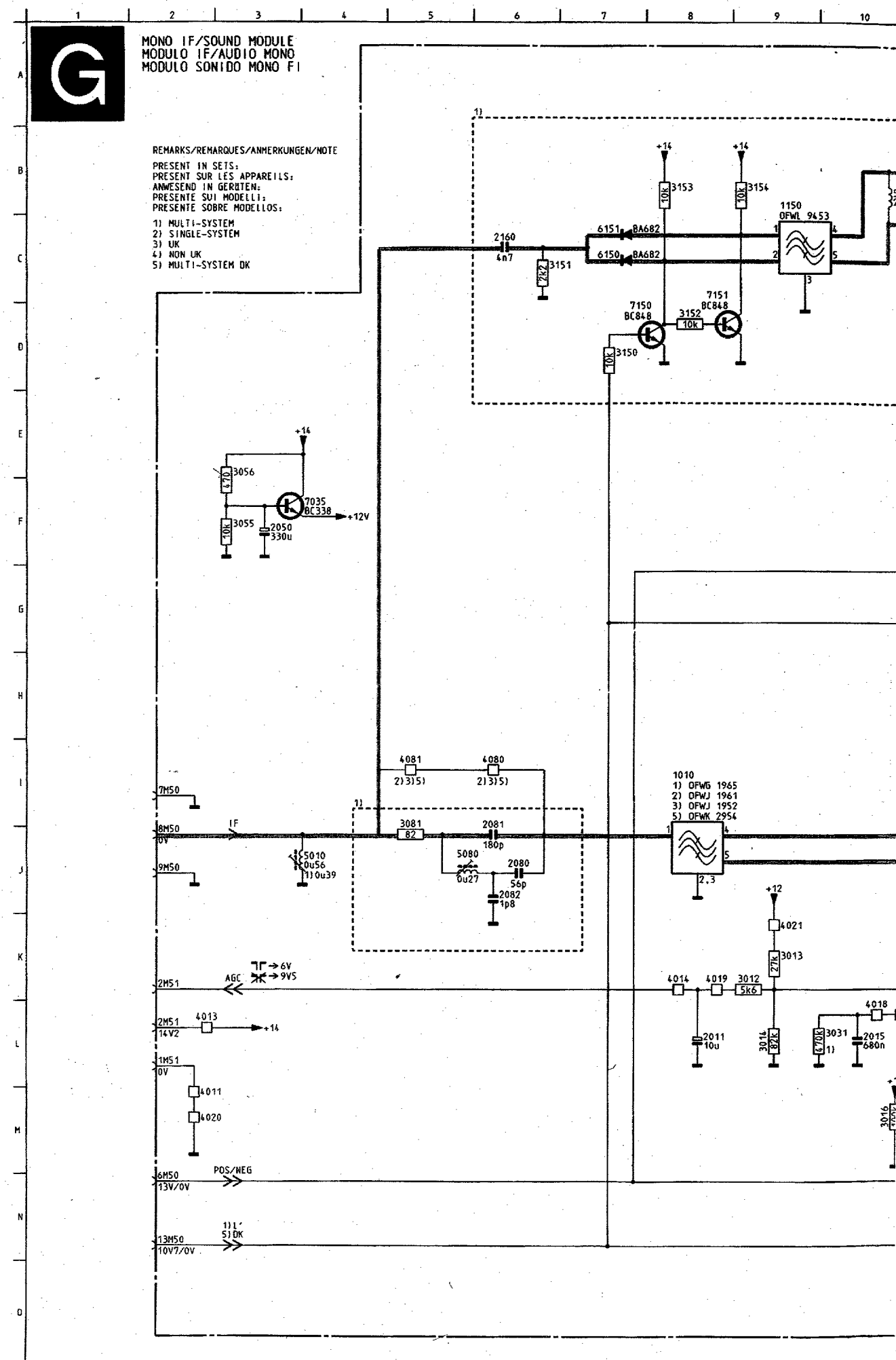


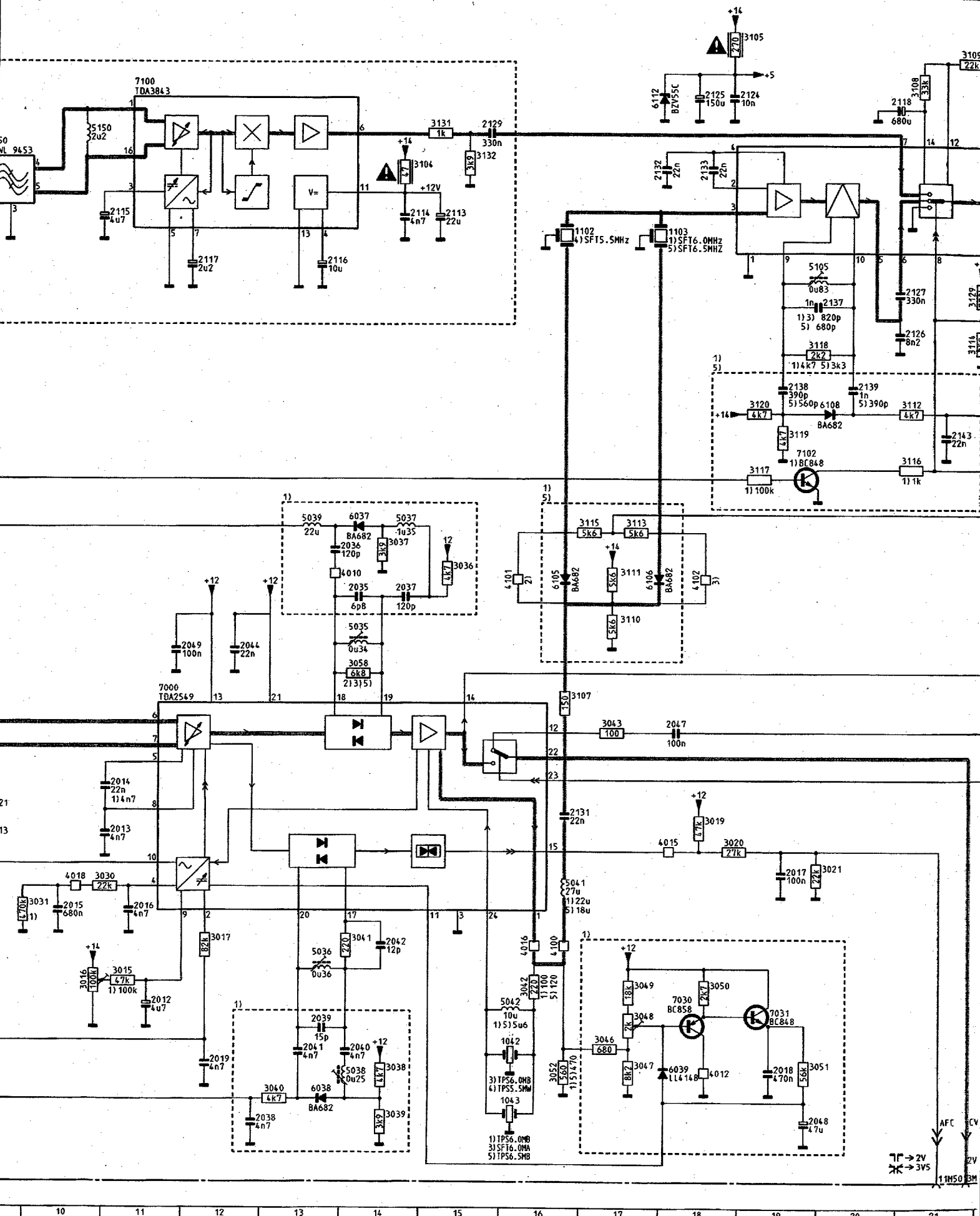
**TP 52**
**120 $V_{pp}$**
**115 $V_{pp}$ for 21"**



**TP 53**
**120 $V_{pp}$**
**110 $V_{pp}$ for 21"**

# Mono IF/sound module / Mono ZF/Tonmodul

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TDA2549
7102
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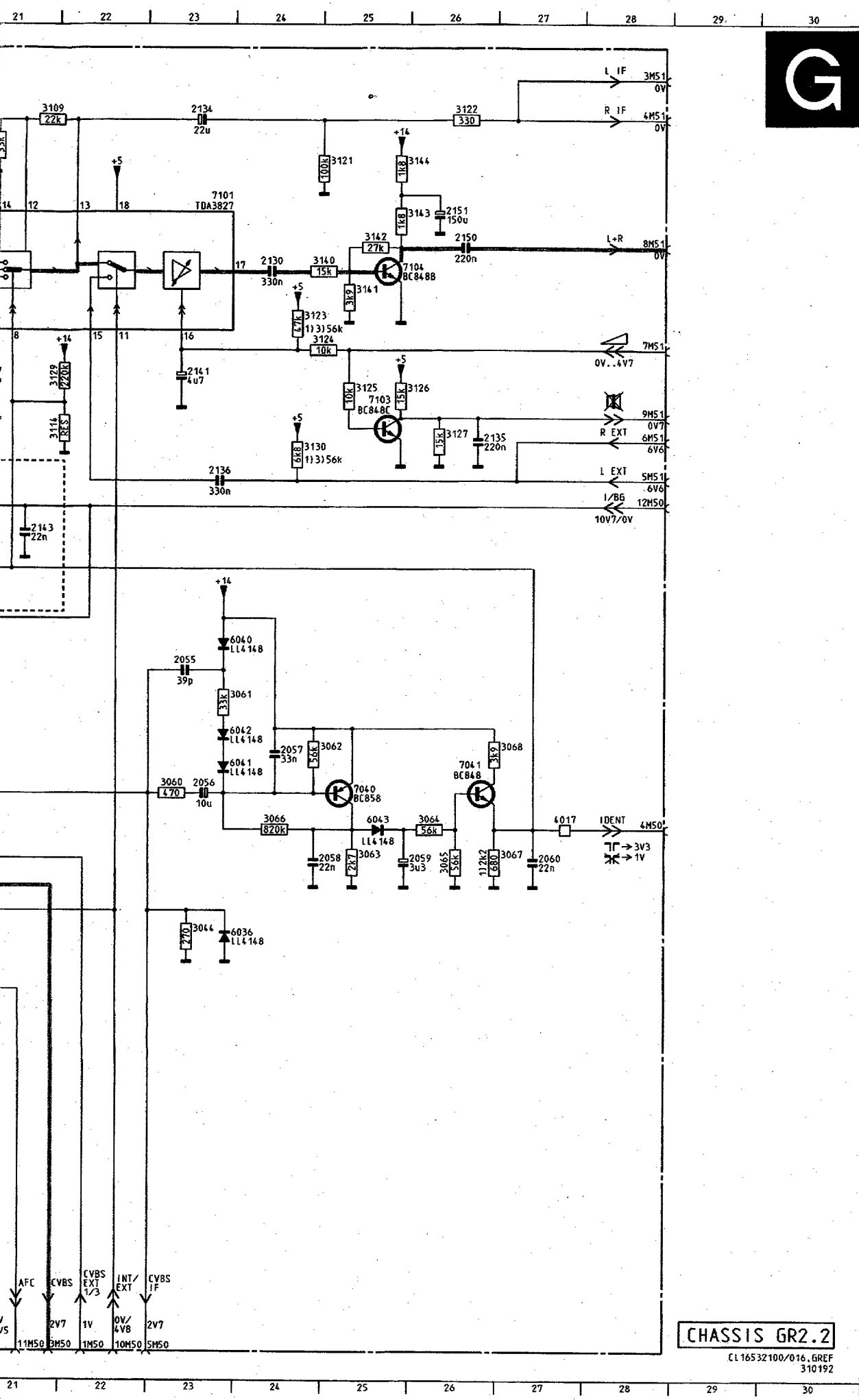
7030
BC858
7031
BC848
BA682
BZV55C
+14
+12
+5
+12V
V=
1102
4)SFT5.5MHz
1103
1)SFT6.0MHz
5)SFT6.5MHz
1)3) 820p
5) 680p
1)4k7 5)3k3
1)100k
1)1k
1)22u
5)18u
1)100
5)120
1)5)5u6
3)TPS6.0MB
4)TPS5.5MW
1)TPS6.0MB
3)SFT6.0MA
5)TPS6.5MB
1)
5)
AFC
CV
2V
→2V
→3V5
11M50




| | | | | |
|---|---|---|---|---|
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| | 1042 | N16 | 3119 | F19 |
| | 1043 | N16 | 3120 | F19 |
| | 1102 | D16 | 3121 | B25 |
| A | 1103 | D18 | 3122 | A26 |
| | 1150 | B 9 | 3123 | D24 |
| | 2011 | L 8 | 3124 | D24 |
| | 2012 | M11 | 3125 | D25 |
| | 2013 | K11 | 3126 | D25 |
| | 2014 | J11 | 3127 | E26 |
| | 2015 | L10 | 3129 | D21 |
| | 2016 | L11 | 3130 | E24 |
| B | 2017 | L19 | 3131 | B15 |
| | 2018 | N19 | 3132 | C15 |
| | 2019 | N12 | 3140 | C24 |
| | 2035 | H14 | 3141 | C25 |
| | 2036 | G13 | 3142 | C25 |
| | 2037 | H14 | 3143 | B25 |
| | 2038 | O12 | 3144 | B25 |
| | 2039 | M13 | 3150 | D 7 |
| C | 2040 | N14 | 3151 | C 6 |
| | 2041 | N13 | 3152 | D 8 |
| | 2042 | L14 | 3153 | B 8 |
| | 2044 | I12 | 3154 | B 9 |
| | 2047 | J18 | 4010 | H13 |
| | 2048 | D19 | 4011 | M 2 |
| | 2049 | I11 | 4012 | N18 |
| D | 2050 | F 3 | 4014 | K 8 |
| | 2055 | H23 | 4015 | K18 |
| | 2056 | I23 | 4016 | L16 |
| | 2057 | I24 | 4017 | I27 |
| | 2058 | J24 | 4018 | L10 |
| | 2059 | J26 | 4019 | K 8 |
| | 2060 | J27 | 4020 | M 2 |
| | 2080 | J 6 | 4021 | K 9 |
| E | 2081 | J 6 | 4080 | I 6 |
| | 2082 | J 6 | 4081 | I 5 |
| | 2113 | C15 | 4100 | L16 |
| | 2114 | C14 | 4101 | H16 |
| | 2115 | C11 | 4102 | H18 |
| | 2116 | D13 | 5010 | J 4 |
| | 2117 | D12 | 5035 | H14 |
| F | 2118 | B21 | 5036 | M13 |
| | 2124 | B18 | 5037 | G14 |
| | 2125 | B18 | 5038 | N14 |
| | 2126 | E21 | 5039 | G13 |
| | 2127 | D21 | 5041 | L16 |
| | 2129 | B15 | 5042 | M16 |
| | 2130 | C24 | 5080 | J 5 |
| | 2131 | K16 | 5105 | D19 |
| G | 2132 | C17 | 5150 | B10 |
| | 2133 | C18 | 6036 | K23 |
| | 2134 | A23 | 6037 | G14 |
| | 2135 | E26 | 6038 | N13 |
| | 2136 | E23 | 6039 | N18 |
| | 2137 | D20 | 6040 | G23 |
| | 2138 | E19 | 6041 | I23 |
| H | 2139 | E20 | 6042 | H23 |
| | 2141 | D23 | 6043 | I25 |
| | 2143 | F21 | 6105 | H16 |
| | 2150 | C26 | 6106 | H17 |
| | 2151 | B26 | 6108 | F20 |
| | 2160 | C 6 | 6112 | B17 |
| | 3012 | K 9 | 6150 | C 7 |
| | 3013 | K 9 | 6151 | C 7 |
| I | 3014 | L 9 | 7000 | L11 |
| | 3015 | M11 | 7030 | M18 |
| | 3016 | M10 | 7031 | M19 |
| | 3017 | L12 | 7035 | F 4 |
| | 3019 | K18 | 7040 | I25 |
| | 3020 | K18 | 7041 | I26 |
| | 3021 | K20 | 7100 | B11 |
| J | 3030 | L11 | 7101 | B23 |
| | 3031 | L10 | 7102 | F19 |
| | 3036 | H15 | 7103 | E25 |
| | 3037 | G14 | 7104 | C25 |
| | 3038 | N14 | 7150 | D 8 |
| | 3039 | N14 | 7151 | C 8 |
| | 3040 | N13 | | |
| | 3041 | L14 | | |
| K | 3042 | M16 | | |
| | 3043 | J17 | | |
| | 3044 | J23 | | |
| | 3046 | N17 | | |
| | 3047 | N17 | | |
| | 3048 | M17 | | |
| | 3049 | M17 | | |
| | 3050 | M18 | | |
| L | 3051 | N19 | | |
| | 3052 | N16 | | |
| | 3055 | F 3 | | |
| | 3056 | E 3 | | |
| | 3058 | I14 | | |
| | 3060 | I23 | | |
| | 3061 | H23 | | |
| M | 3062 | H24 | | |
| | 3063 | J25 | | |
| | 3064 | I26 | | |
| | 3065 | J26 | | |
| | 3066 | I24 | | |
| | 3067 | J27 | | |
| | 3068 | H27 | | |
| | 3081 | J 5 | | |
| N | 3104 | C14 | | |
| | 3105 | A19 | | |
| | 3107 | I16 | | |
| | 3108 | B21 | | |
| | 3109 | A21 | | |
| | 3110 | H17 | | |
| | 3111 | H17 | | |
| | 3112 | F21 | | |
| O | 3113 | G17 | | |
| | 3114 | E21 | | |
| | 3115 | G17 | | |
| | 3116 | F21 | | |
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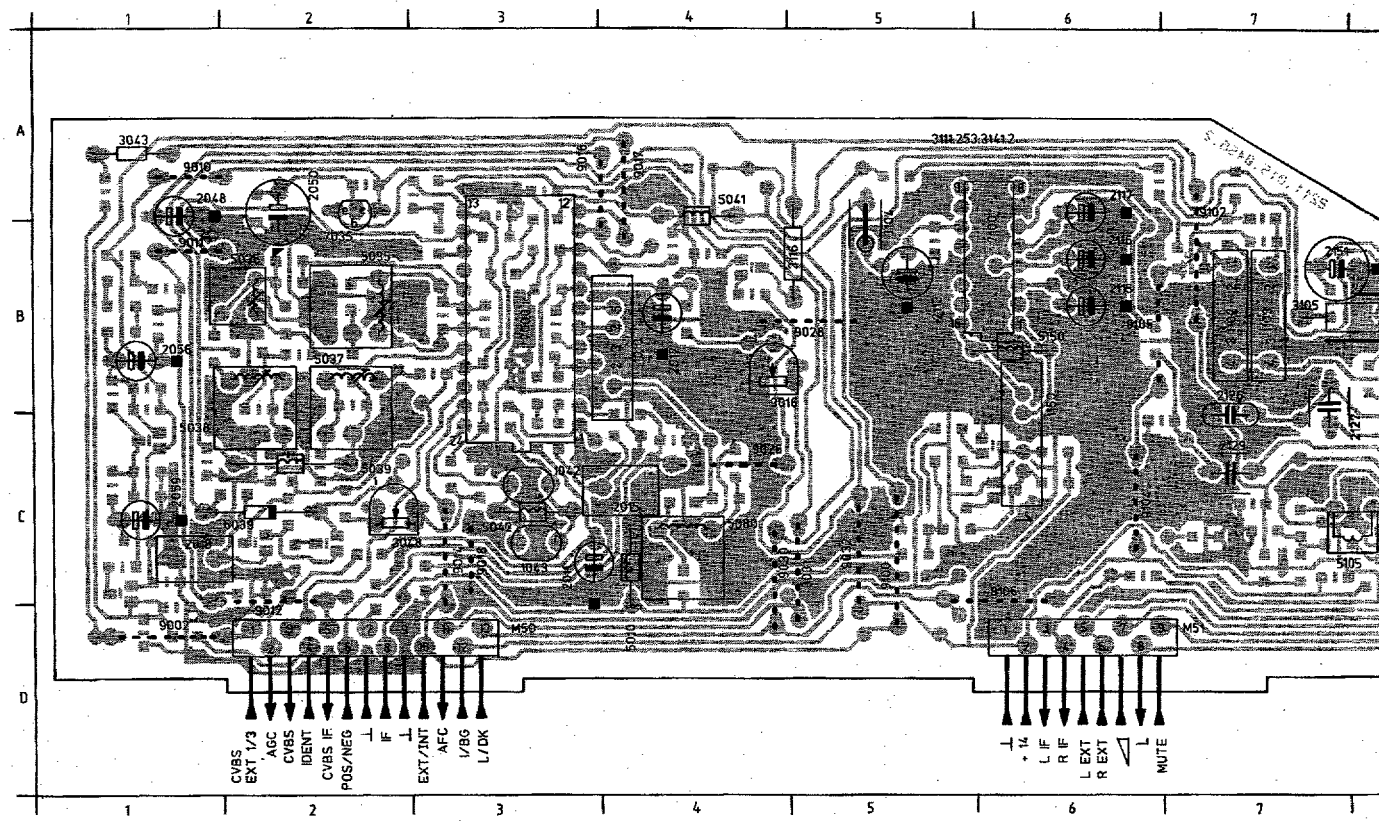
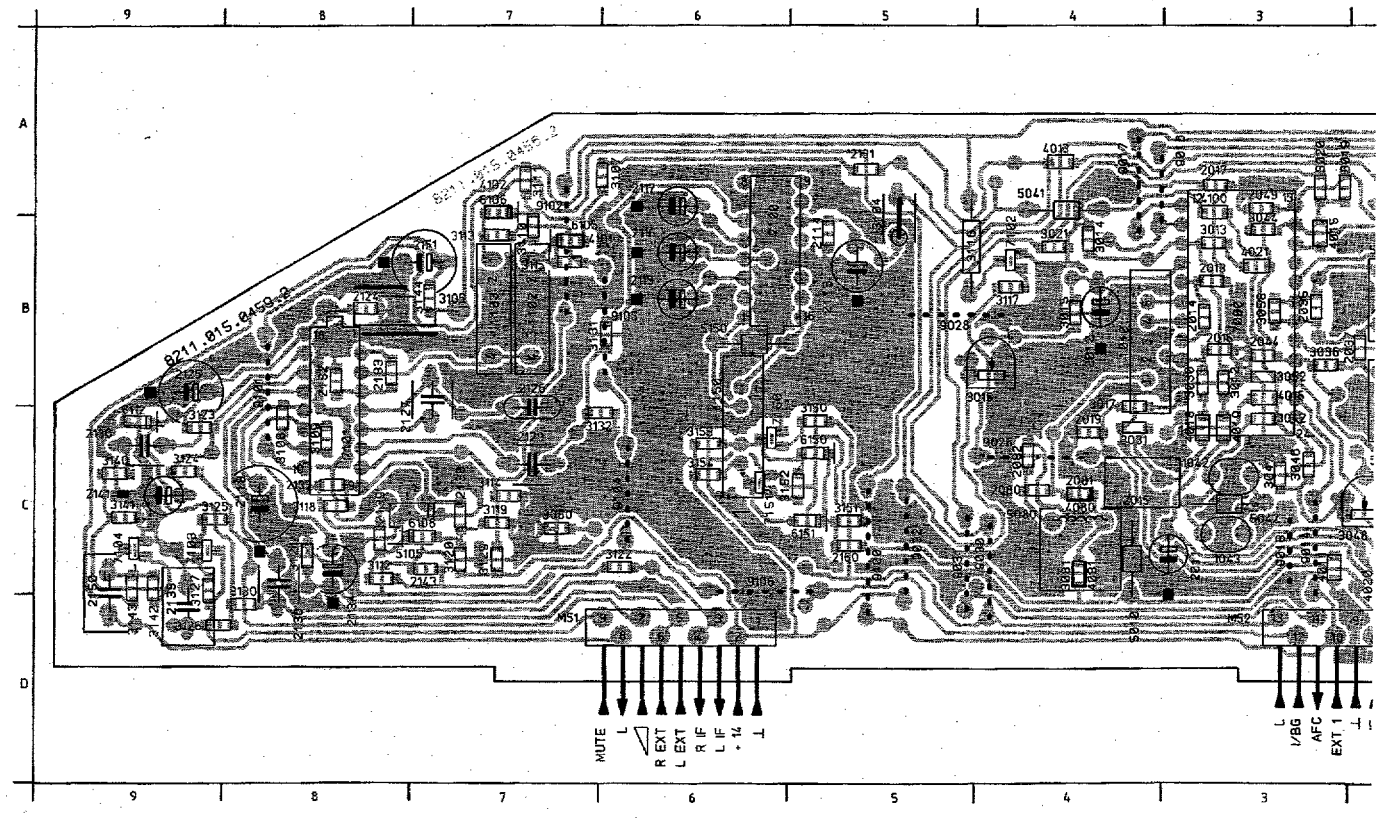
CHASSIS GR2.2

CL16532100/016.GREF

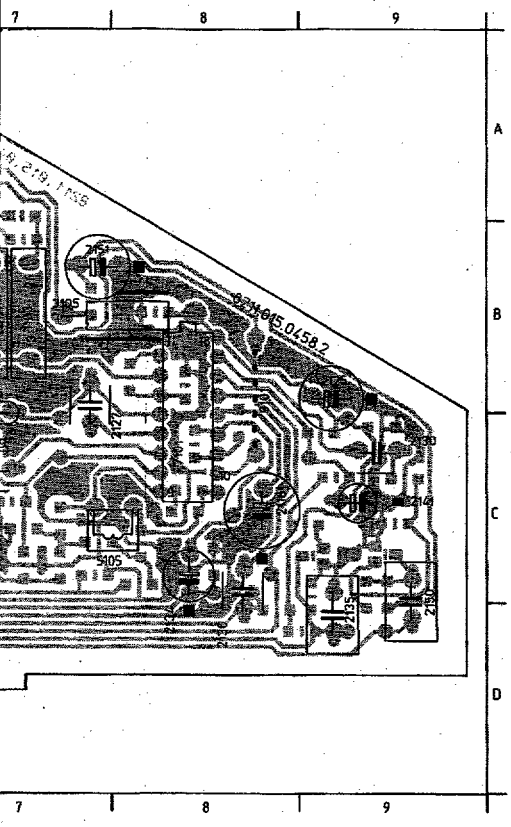
310192

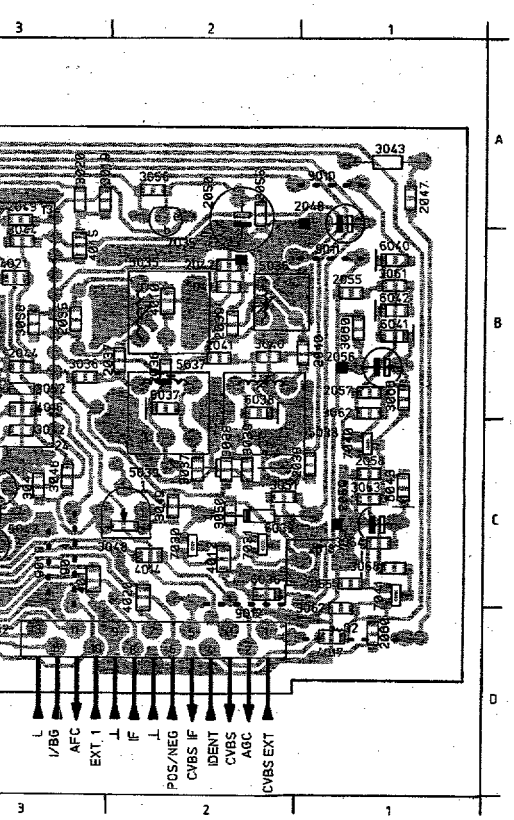
# Mono IF/sound module / Mono ZF/Tonmodul /



# Module FI/son mono



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| M51 | D6 | 3109 | C8 |
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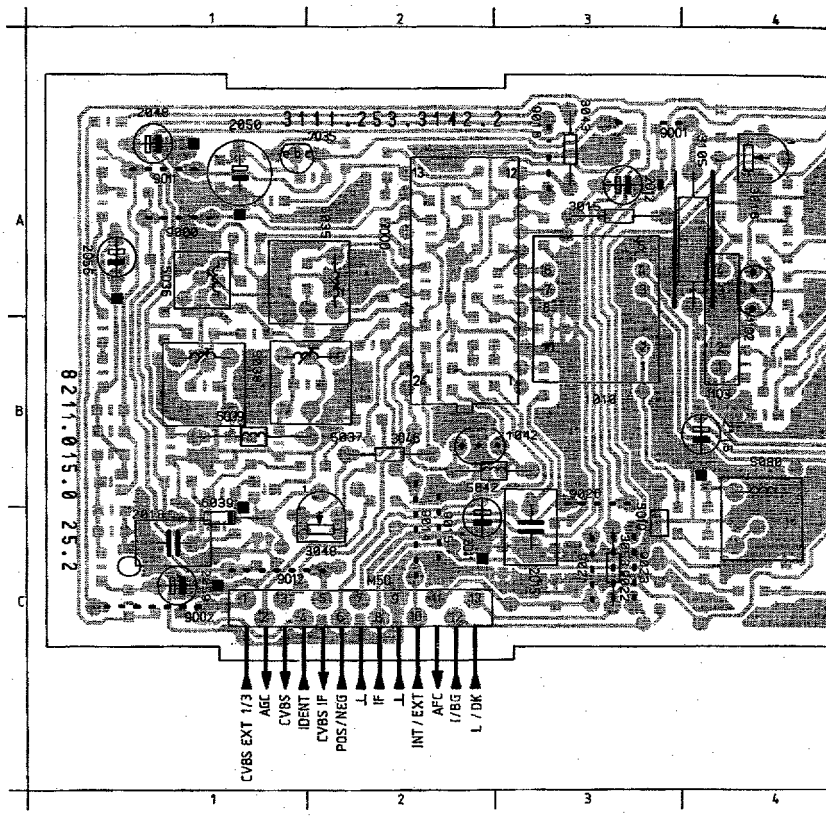
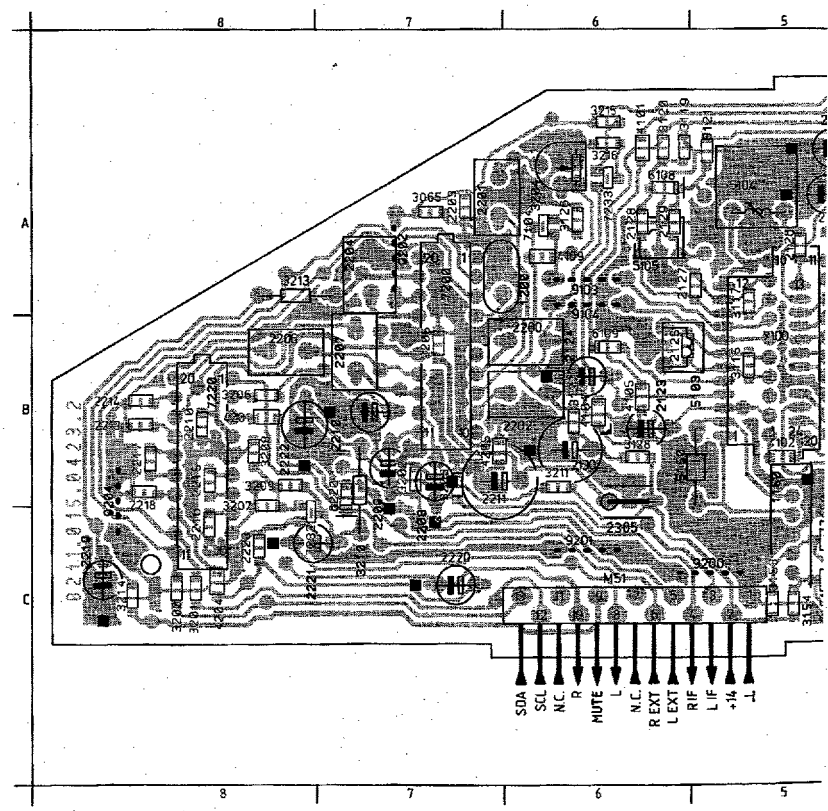
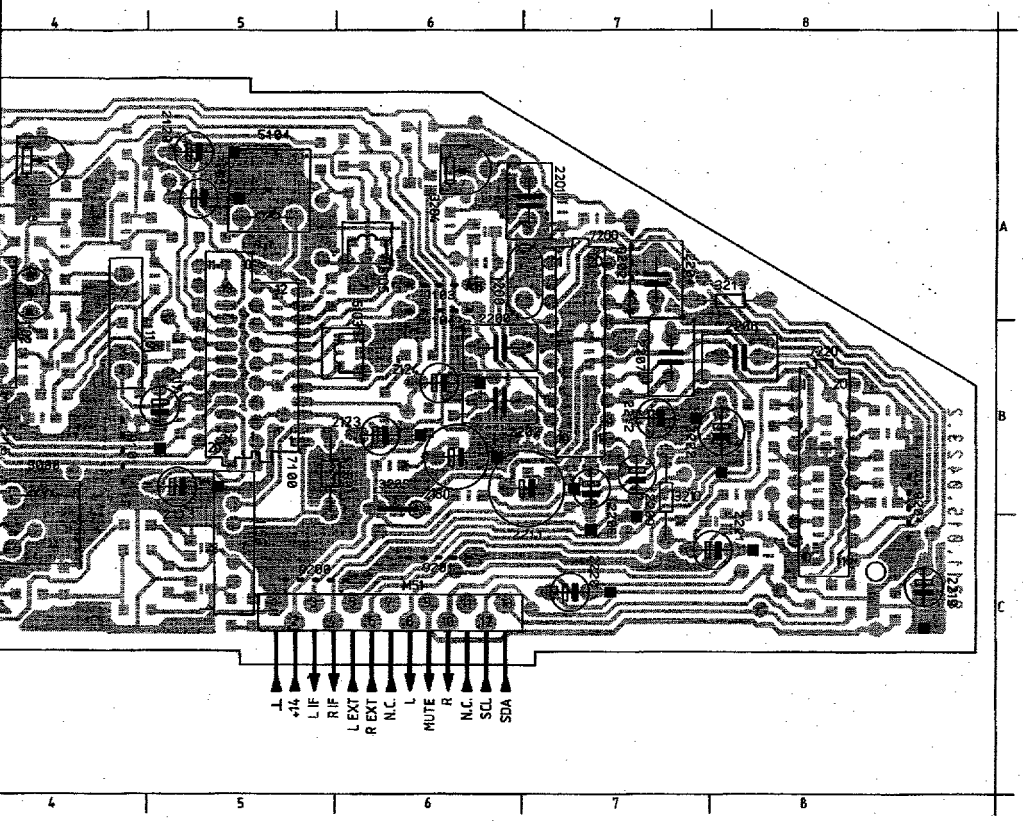
| 1042 | C3 | 3111 | A7 |
| 1043 | C3 | 3112 | C8 |
| 1102 | B7 | 3113 | B7 |
| 1103 | B7 | 3114 | C7 |
| 1150 | C6 | 3115 | B7 |
| 2011 | C4 | 3116 | B5 |
| 2012 | B4 | 3117 | B5 |
| 2013 | B4 | 3118 | C8 |
| 2014 | B4 | 3119 | C7 |
| 2015 | C4 | 3120 | C8 |
| 2016 | B4 | 3121 | C8 |
| 2017 | A4 | 3122 | C7 |
| 2018 | C2 | 3123 | C9 |
| 2019 | C4 | 3124 | C9 |
| 2035 | B3 | 3125 | C9 |
| 2036 | B3 | 3126 | D9 |
| 2037 | B3 | 3127 | C9 |
| 2038 | C2 | 3129 | C7 |
| 2039 | B2 | 3130 | D9 |
| 2040 | B2 | 3131 | B7 |
| 2041 | B2 | 3132 | C7 |
| 2042 | B2 | 3140 | C9 |
| 2044 | B3 | 3141 | C9 |
| 2047 | A1 | 3142 | C9 |
| 2048 | A2 | 3143 | C9 |
| 2049 | A3 | 3144 | B8 |
| 2050 | A2 | 3150 | C6 |
| 2055 | B2 | 3151 | C6 |
| 2056 | B1 | 3152 | C6 |
| 2057 | B1 | 3153 | C6 |
| 2058 | C1 | 3154 | C6 |
| 2059 | C1 | 4010 | B3 |
| 2060 | D1 | 4011 | C3 |
| 2080 | C5 | 4012 | C2 |
| 2081 | C4 | 4013 | A4 |
| 2082 | C5 | 4014 | C3 |
| 2113 | B6 | 4015 | B3 |
| 2114 | B6 | 4016 | B3 |
| 2115 | B6 | 4017 | D2 |
| 2116 | B6 | 4018 | C4 |
| 2117 | A6 | 4019 | C4 |
| 2118 | C9 | 4020 | C3 |
| 2124 | B8 | 4021 | B3 |
| 2125 | B9 | 4080 | C4 |
| 2126 | B7 | 4081 | C4 |
| 2127 | B8 | 4100 | A4 |
| 2129 | C7 | 4101 | B7 |
| 2130 | C9 | 4102 | A7 |
| 2131 | A5 | 5010 | C4 |
| 2132 | B8 | 5035 | B3 |
| 2133 | B8 | 5036 | B2 |
| 2134 | C8 | 5037 | B3 |
| 2135 | D9 | 5038 | B2 |
| 2136 | C9 | 5039 | C2 |
| 2137 | C8 | 5041 | A4 |
| 2138 | C8 | 5042 | C4 |
| 2139 | C8 | 5080 | C4 |
| 2141 | C9 | 5105 | C8 |
| 2143 | C8 | 5150 | B6 |
| 2150 | C9 | 6036 | C2 |
| 2151 | B8 | 6037 | B3 |
| 2160 | C6 | 6038 | B2 |
| 3012 | B4 | 6039 | C2 |
| 3013 | B4 | 6040 | B1 |
| 3014 | B4 | 6041 | B1 |
| 3015 | B4 | 6042 | B1 |
| 3016 | B5 | 6043 | C1 |
| 3017 | B4 | 6105 | B7 |
| 3019 | A3 | 6106 | A7 |
| 3020 | A3 | 6108 | C8 |
| 3021 | B4 | 6112 | C9 |
| 3030 | B4 | 6150 | C6 |
| 3031 | C4 | 6151 | C6 |
| 3036 | B3 | 7000 | C4 |
| 3037 | C2 | 7030 | C2 |
| 3038 | C2 | 7031 | C2 |
| 3039 | C2 | 7035 | A3 |
| 3040 | B2 | 7040 | C2 |
| 3041 | B2 | 7041 | C1 |
| 3042 | C3 | 7100 | B6 |
| 3044 | B3 | 7101 | B8 |
| 3046 | C3 | 7102 | B5 |
| 3047 | C3 | 7103 | C9 |
| 3048 | C3 | 7104 | C9 |
| 3049 | C3 | 7150 | C6 |
| 3050 | C2 | 7151 | C6 |
| 3051 | C2 | 9002 | D2 |
| 3052 | B3 | 9010 | A2 |
| 3055 | A2 | 9011 | B2 |
| 3056 | A3 | 9012 | C2 |
| 3058 | B3 | 9014 | C3 |
| 3060 | B2 | 9016 | A4 |
| 3061 | B1 | 9017 | A4 |
| 3062 | B1 | 9018 | C3 |
| 3063 | C1 | 9026 | C5 |
| 3064 | C1 | 9028 | B5 |
| 3065 | C2 | 9030 | C5 |
| 3066 | B1 | 9031 | C5 |
| 3067 | C2 | 9032 | C5 |
| 3068 | C1 | 9100 | C5 |
| 3080 | C7 | 9101 | B9 |
| 3081 | C4 | 9102 | B7 |
| 3104 | A5 | 9104 | C7 |
| 3105 | B8 | 9105 | B7 |
| 3107 | A7 | 9106 | C6 |

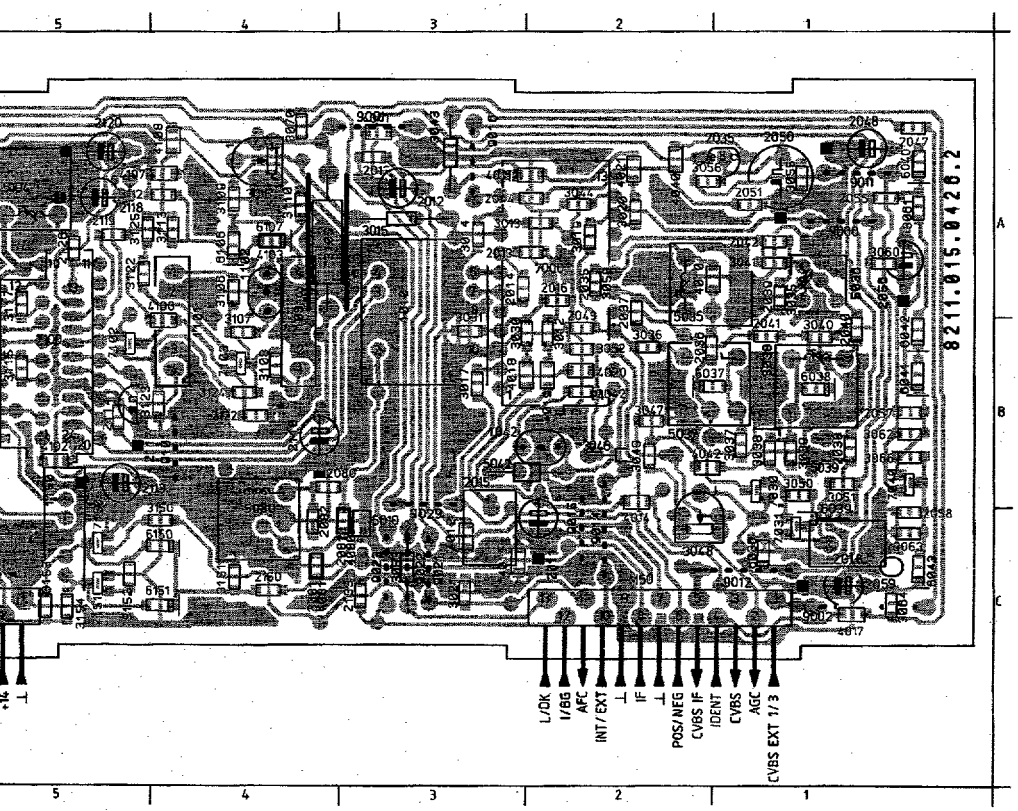
# Stereo IF/sound module / Stereo ZF/Tonmodul /



# Module FI/son stéréo

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1102 A4
1103 B4
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1200 A7
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2012 A3
2013 A3
2014 A3
2015 C3
2016 A3
2017 A4
2018 C1
2035 A2
2036 B2
2037 A2
2038 B1
2039 A1
2040 B1
2041 B1
2042 A1
2044 A3
2048 A1
2049 B2
2050 A1
2051 A2
2055 A1
2056 A1
2057 B1
2058 C1
2059 C1
2080 B4
2081 C4
2082 C4
2113 B5
2114 B5
2115 B4
2117 B5
2118 A5
2119 A5
2120 A5
2122 B4
2123 B6
2124 B6
2125 B6
2126 A5
2127 A6
2128 A6
2129 A6
2130 B6
2133 C4
2160 C4
2200 B7
2201 A7
2202 B7
2203 A7
2204 A7
2205 B7
2206 B8
2207 B8
2208 B7
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2210 B8
2211 B7
2212 B7
2213 B9
2214 B9
2215 B8
2216 C8
2217 B9
2218 B9
2219 C9
2220 C7
2221 C8
2222 B8
2223 C8
3012 B3
3013 A3
3014 A3
3015 A3
3016 A4
3017 B3
3019 A2
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3021 C3
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3211 B6
3213 A8
3214 C9
3215 A6
3216 A6
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4014 B2
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4017 C1
4018 B3
4019 B3
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9011 A1
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9014 C2
9015 C2
9016 A3
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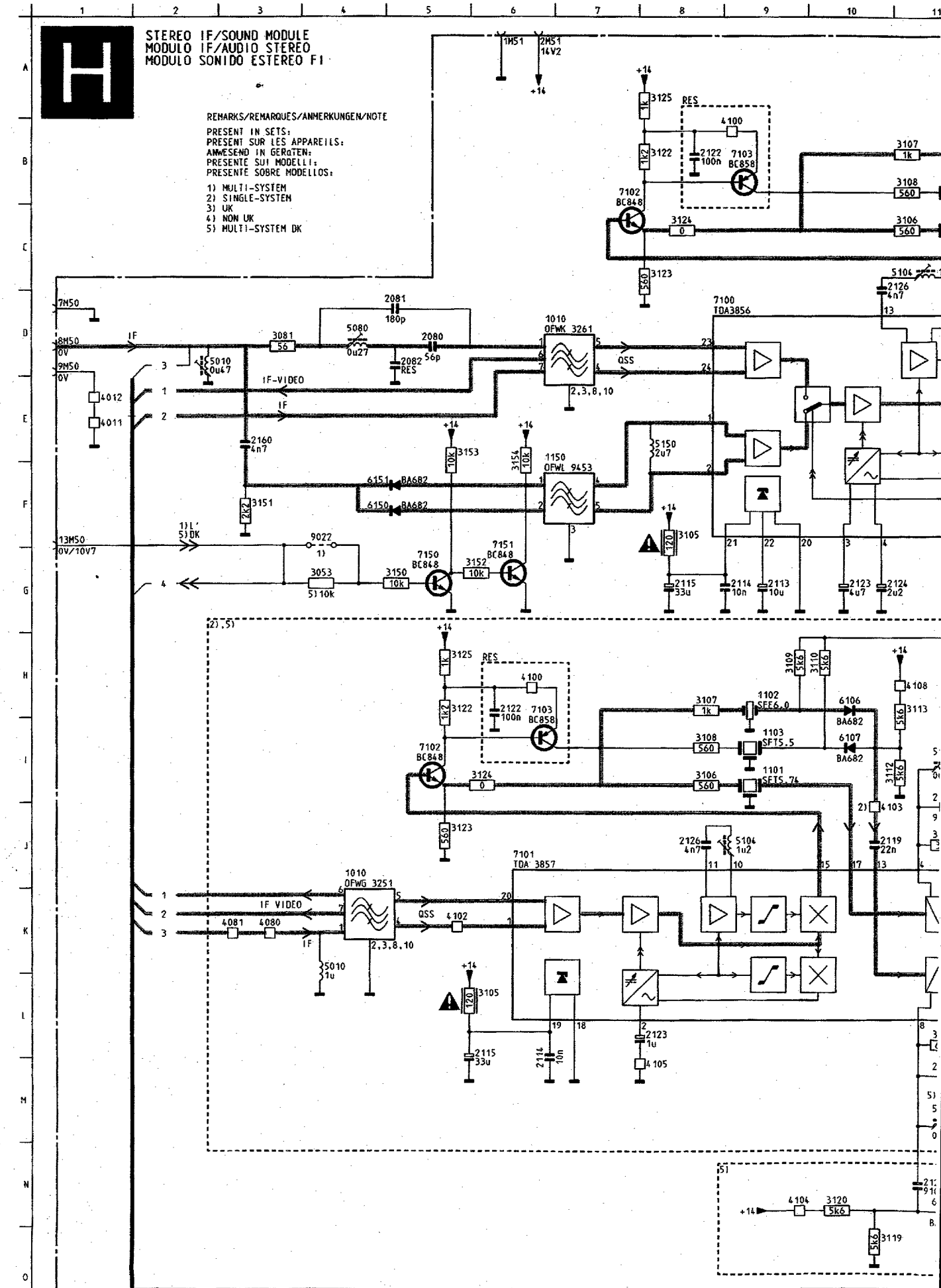
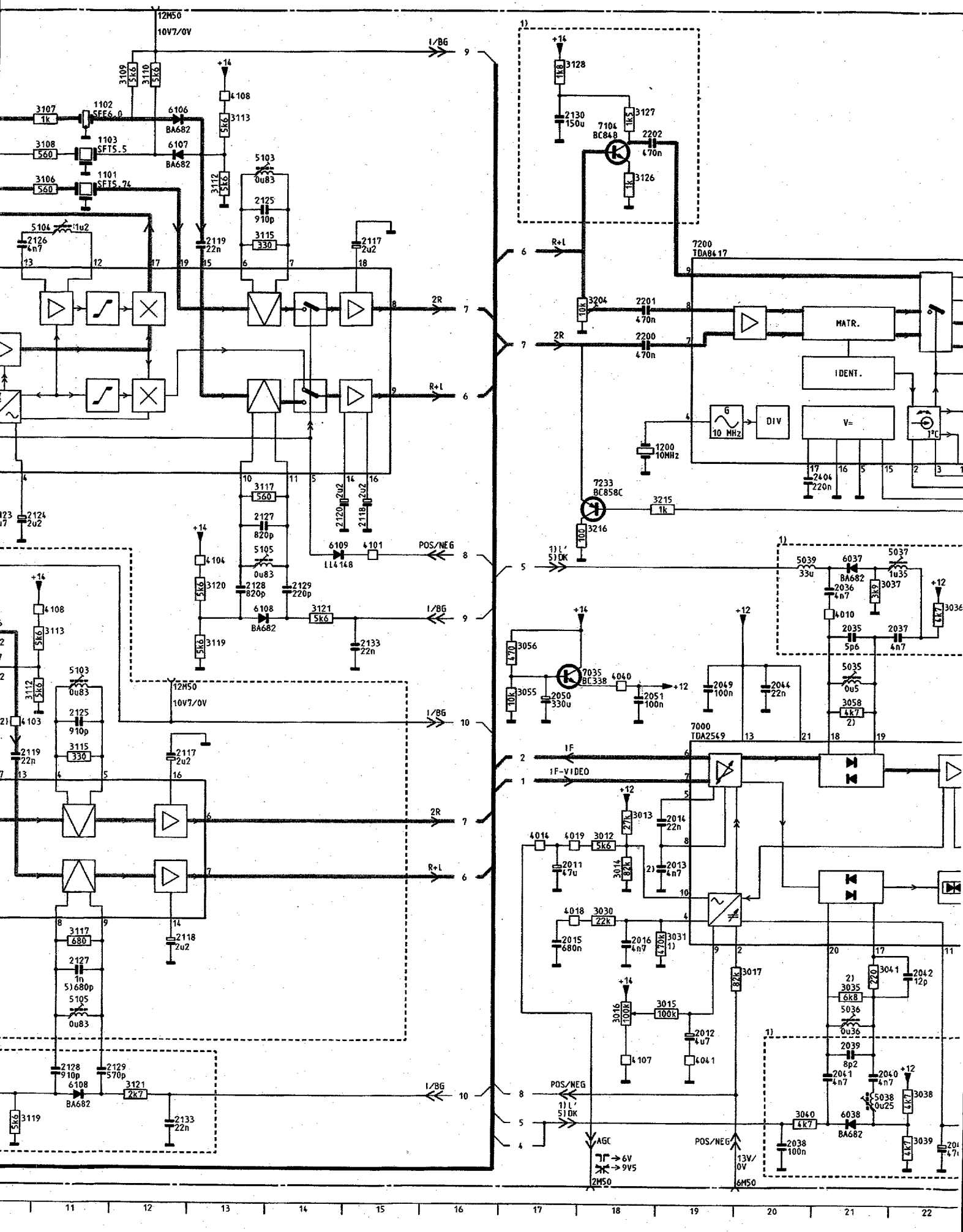
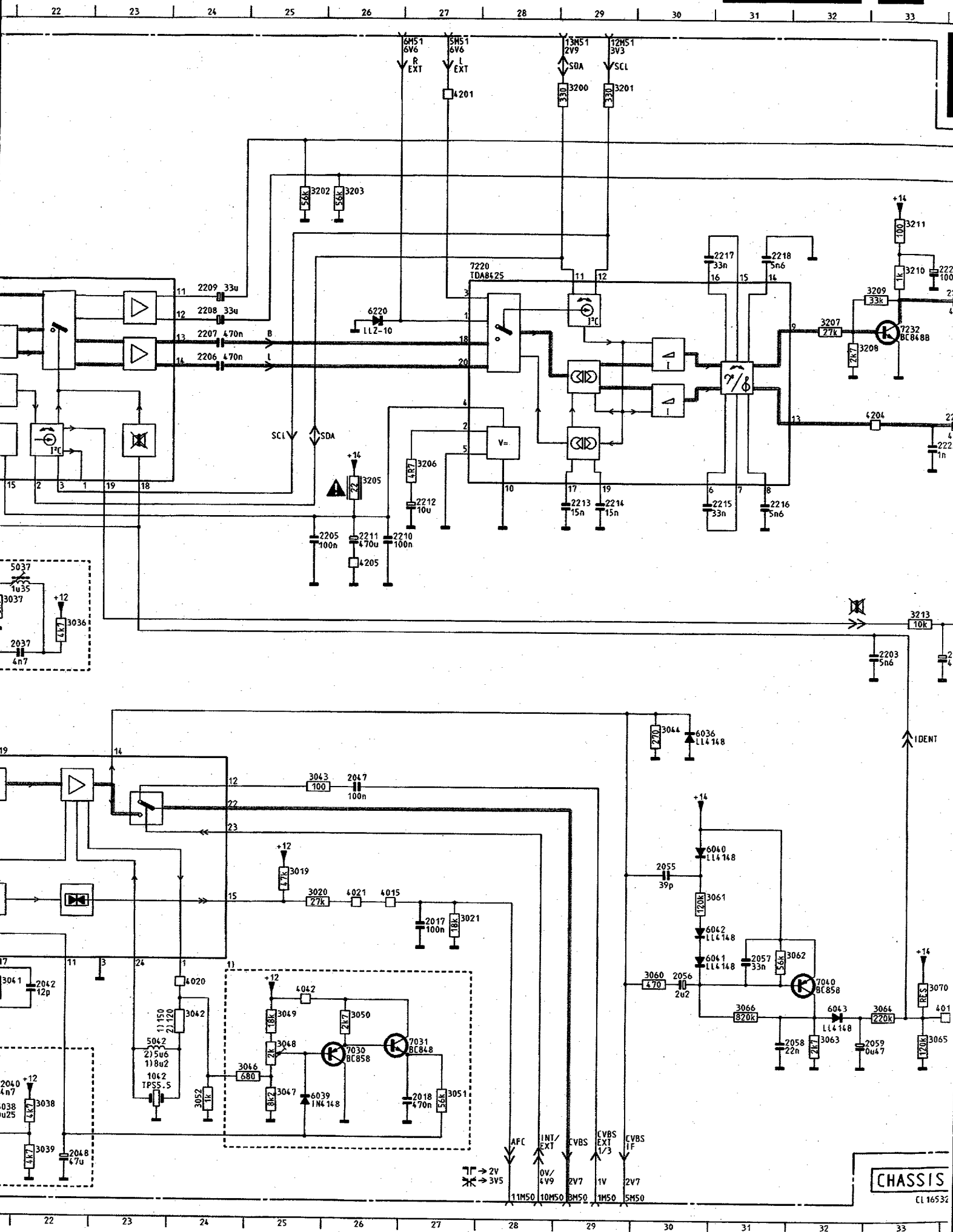

H
STEREO IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) MULTI-SYSTEM
2) SINGLE-SYSTEM
3) UK
4) NON UK
5) MULTI-SYSTEM DK
7100 TDA3856
7101 TDA 3857
1010 OFWK 3261
1010 OFWG 3251
1150 OFWL 9453
IF
IF-VIDEO
QSS
RES

# Module FI/son stéréo

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5M51 6V6 L EXT
13M51 2V9 SDA
12M51 3V3 SCL
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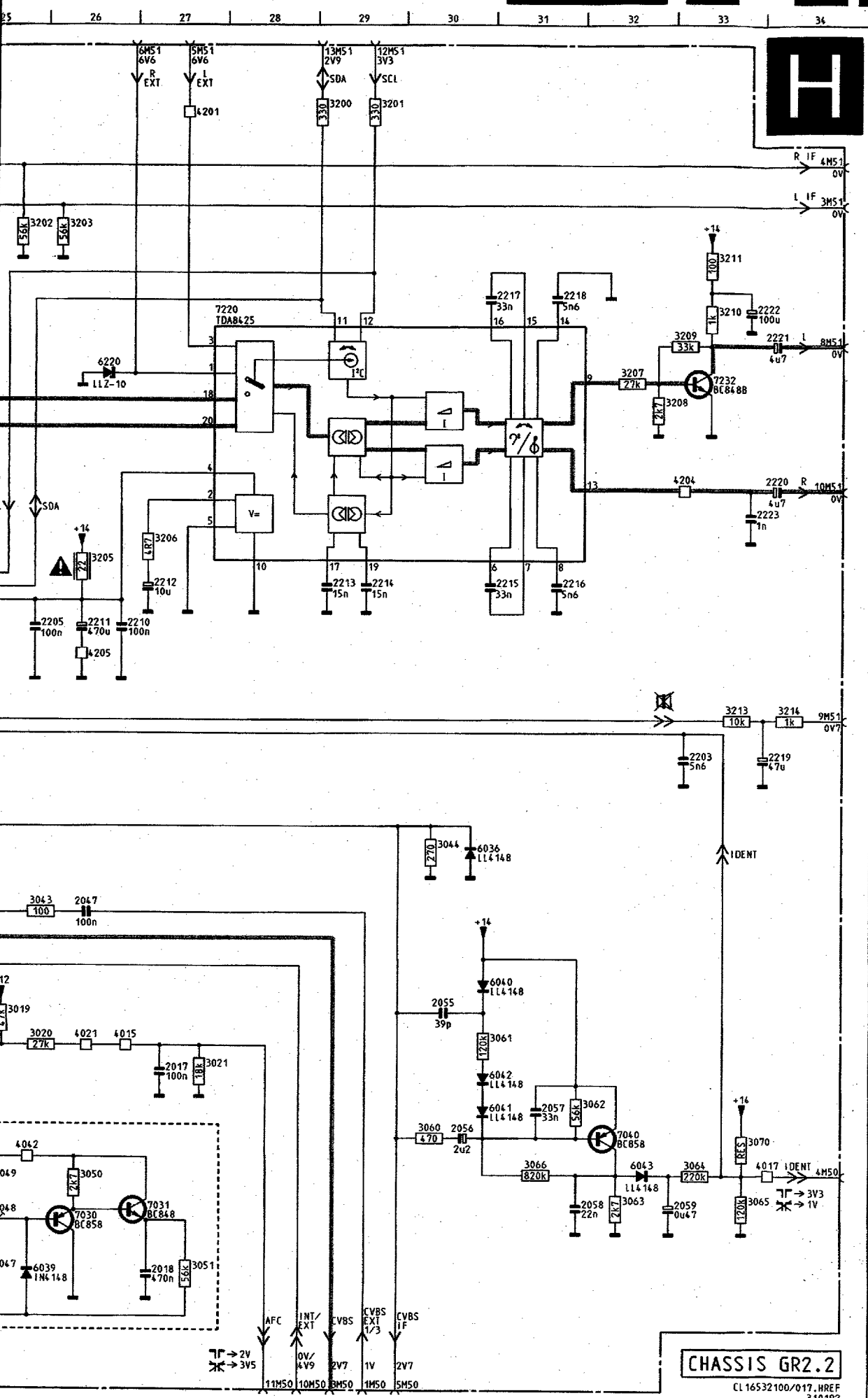
3201
3202
3203
7220 TDA8425
6220 LLZ-10
2209 33u
2208 33u
2207 470n
2206 470n
SCL
SDA
3205
3206
2212 10u
2205 100n
2211 470u
2210 100n
4205
2213 15n
2214 15n
2215 33n
2216 5n6
2217 33n
2218 5n6
3207 27k
7232 BC848B
3208 2k7
3209 33k
3210 1k
3211 100
4204
5037 1u35
3037
2037 4n7
3036 4k7
3213 10k
2203 5n6
IDENT
3044 270
6036 LL4148
3043 100
2047 100n
3019 47k
3020 27k
4021
4015
2017 100n
3021 18k
4020
4042
3049 18k
3050 2k7
3048 2k
7030 BC858
7031 BC848
3046 680
3047 8k2
6039 1N4148
2018 470n
3051 56k
3052 1k
5042 2)5u6 1)8u2
1042 TPS5.5
3042 1150 2120
3041
2042 12p
3038 4k7
3039 4k7
2048 47u
6040 LL4148
6042 LL4148
6041 LL4148
2055 39p
3061 120k
2056 2u2
3060 470
2057 33n
3062 56k
7040 BC858
3066 820k
6043 LL4148
3064 220k
2058 22n
3063 2k7
2059 0u47
3065 120k
3070 RES
AFC
INT/ EXT
CVBS
CVBS EXT 1/3
CVBS IF
→2V →3V5
11M50
10M50
8M50
1M50
5M50
0V/ 4V9
2V7
1V
CHASSIS
CL 16532

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| 1042 | N23 | 3047 | N25 | 5103 | I11 |
| 1101 | C11 | 3048 | M25 | 5104 | J 9 |
| 1101 | I 9 | 3049 | M25 | 5104 | C11 |
| 1102 | B11 | 3050 | M26 | 5105 | G13 |
| 1102 | H 9 | 3051 | N27 | 5105 | M11 |
| 1103 | B11 | 3052 | N24 | 5150 | E 8 |
| 1103 | I 9 | 3053 | G 4 | 6036 | I30 |
| 1150 | F 6 | 3055 | I17 | 6037 | G21 |
| 1200 | F18 | 3056 | I17 | 6038 | O21 |
| 2011 | K17 | 3058 | I21 | 6039 | N25 |
| 2012 | N19 | 3060 | M30 | 6040 | K30 |
| 2013 | K19 | 3061 | K30 | 6041 | L30 |
| 2014 | K19 | 3062 | L31 | 6042 | L30 |
| 2015 | L17 | 3063 | M32 | 6043 | M32 |
| 2016 | L18 | 3064 | M33 | 6106 | B12 |
| 2017 | L27 | 3065 | M33 | 6106 | H10 |
| 2018 | N27 | 3066 | M31 | 6107 | B12 |
| 2035 | H21 | 3070 | M33 | 6107 | I10 |
| 2036 | H21 | 3081 | D 3 | 6108 | H13 |
| 2037 | H22 | 3105 | F 8 | 6108 | N11 |
| 2038 | O20 | 3105 | L 6 | 6109 | G14 |
| 2039 | N21 | 3106 | C11 | 6150 | F 5 |
| 2040 | N21 | 3106 | I 8 | 6151 | F 5 |
| 2041 | N21 | 3107 | B11 | 6220 | D26 |
| 2042 | M22 | 3107 | H 8 | 7000 | J19 |
| 2044 | I20 | 3108 | B11 | 7030 | N26 |
| 2047 | J26 | 3108 | I 8 | 7031 | M27 |
| 2048 | O22 | 3109 | A12 | 7035 | I18 |
| 2049 | I19 | 3109 | H 9 | 7040 | M32 |
| 2050 | I17 | 3110 | A12 | 7100 | D 8 |
| 2051 | I18 | 3110 | H10 | 7101 | J 6 |
| 2055 | K30 | 3112 | C13 | 7102 | B 7 |
| 2056 | M30 | 3112 | I11 | 7102 | I 5 |
| 2057 | L31 | 3113 | B13 | 7103 | B 9 |
| 2058 | M31 | 3113 | H11 | 7103 | H 6 |
| 2059 | M33 | 3115 | C13 | 7104 | B18 |
| 2080 | D 5 | 3115 | J11 | 7150 | G 5 |
| 2081 | D 5 | 3117 | G13 | 7151 | G 6 |
| 2082 | D 5 | 3117 | L11 | 7200 | D19 |
| 2113 | G 9 | 3119 | I13 | 7220 | D27 |
| 2114 | G 9 | 3119 | O10 | 7232 | D33 |
| 2114 | L 6 | 3120 | H13 | 7233 | G18 |
| 2115 | G 8 | 3120 | N10 | 9022 | F 4 |
| 2115 | L 6 | 3121 | H14 | | |
| 2117 | C15 | 3121 | N12 | | |
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| 2123 | G10 | 3126 | C18 | | |
| 2123 | L 8 | 3127 | B18 | | |
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| 2125 | C13 | 3150 | G 5 | | |
| 2125 | I11 | 3151 | F 3 | | |
| 2126 | C10 | 3152 | G 6 | | |
| 2126 | J 8 | 3153 | E 5 | | |
| 2127 | G13 | 3154 | E 6 | | |
| 2127 | M11 | 3200 | A29 | | |
| 2128 | H13 | 3201 | A29 | | |
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| 2129 | H14 | 3203 | B26 | | |
| 2129 | N11 | 3204 | D18 | | |
| 2130 | B17 | 3205 | F26 | | |
| 2133 | I15 | 3206 | F27 | | |
| 2133 | O12 | 3207 | D32 | | |
| 2160 | E 3 | 3208 | D32 | | |
| 2200 | E18 | 3209 | D33 | | |
| 2201 | D18 | 3210 | C33 | | |
| 2202 | B18 | 3211 | C33 | | |
| 2203 | H33 | 3213 | H33 | | |
| 2205 | G25 | 3214 | H34 | | |
| 2206 | E24 | 3215 | G19 | | |
| 2207 | D24 | 3216 | G18 | | |
| 2208 | D24 | 4010 | H21 | | |
| 2209 | D24 | 4011 | E 1 | | |
| 2210 | G26 | 4012 | E 1 | | |
| 2211 | G26 | 4014 | K17 | | |
| 2212 | G27 | 4015 | L26 | | |
| 2213 | G29 | 4017 | M34 | | |
| 2214 | G29 | 4018 | L17 | | |
| 2215 | G31 | 4019 | K17 | | |
| 2216 | G31 | 4020 | M24 | | |
| 2217 | C31 | 4021 | L26 | | |
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| 2219 | H34 | 4041 | N19 | | |
| 2220 | E34 | 4042 | M25 | | |
| 2221 | D34 | 4080 | K 3 | | |
| 2222 | C33 | 4081 | K 3 | | |
| 2223 | F33 | 4100 | B 9 | | |
| 2404 | F20 | 4100 | H 6 | | |
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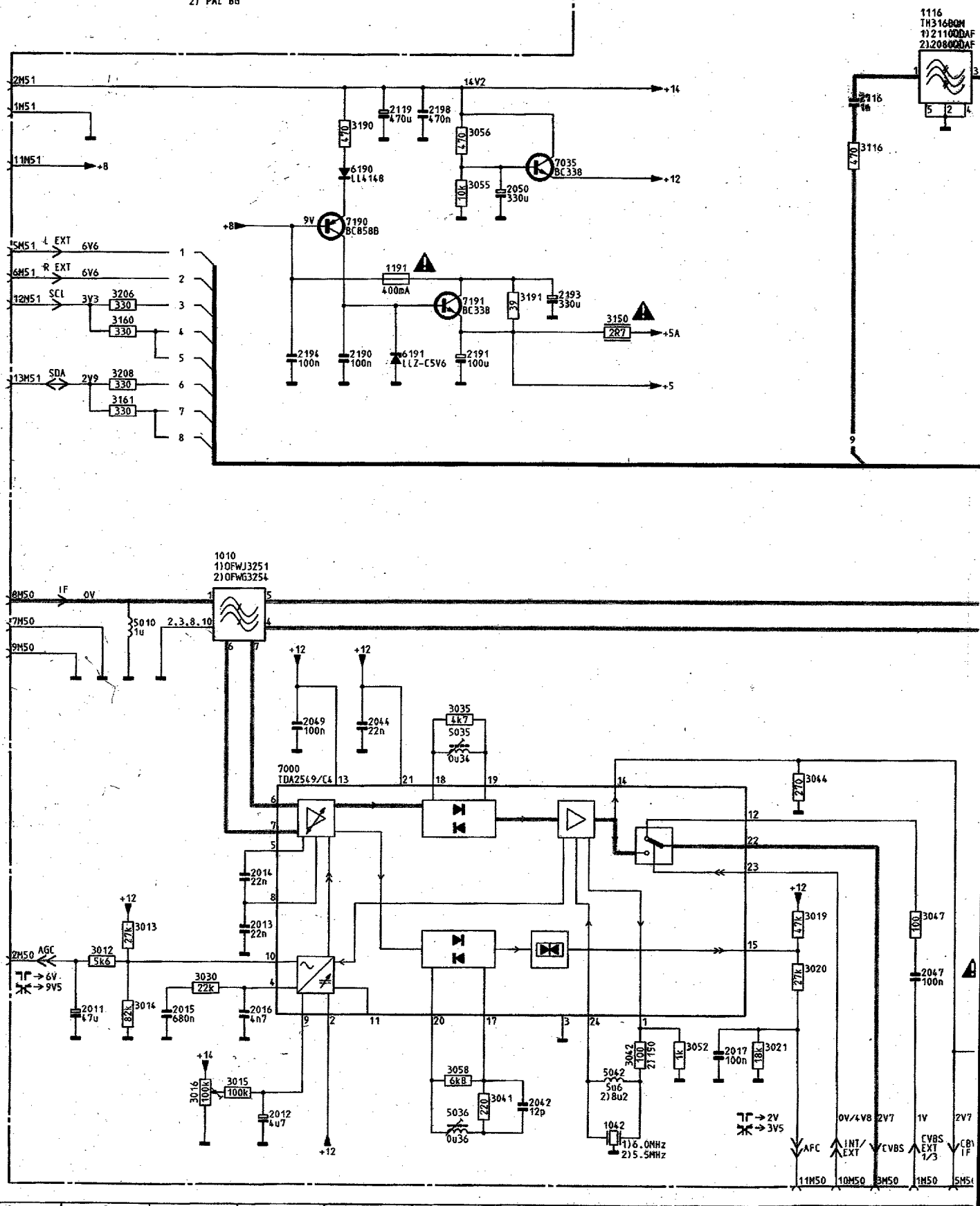
| 3013 | K18 | 4102 | K 5 | | |
| 3014 | K18 | 4103 | J10 | | |
| 3015 | M19 | 4104 | G13 | | |
| 3016 | M18 | 4104 | N 9 | | |
| 3017 | M20 | 4105 | M 8 | | |
| 3019 | K25 | 4107 | N18 | | |
| 3020 | L25 | 4108 | B13 | | |
| 3021 | L27 | 4108 | H11 | | |
| 3030 | L18 | 4201 | A27 | | |
| 3031 | L19 | 4204 | E33 | | |
| 3035 | M21 | 4205 | G26 | | |
| 3036 | N22 | 5010 | K 4 | | |
| 3037 | N21 | 5010 | D 2 | | |
| 3038 | N22 | 5035 | I21 | | |
| 3039 | O22 | 5036 | M21 | | |
| 3040 | O20 | 5037 | G22 | | |
| 3041 | M21 | 5038 | N21 | | |
| 3042 | N24 | 5039 | H20 | | |
| 3043 | J25 | 5042 | M23 | | |

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG



REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
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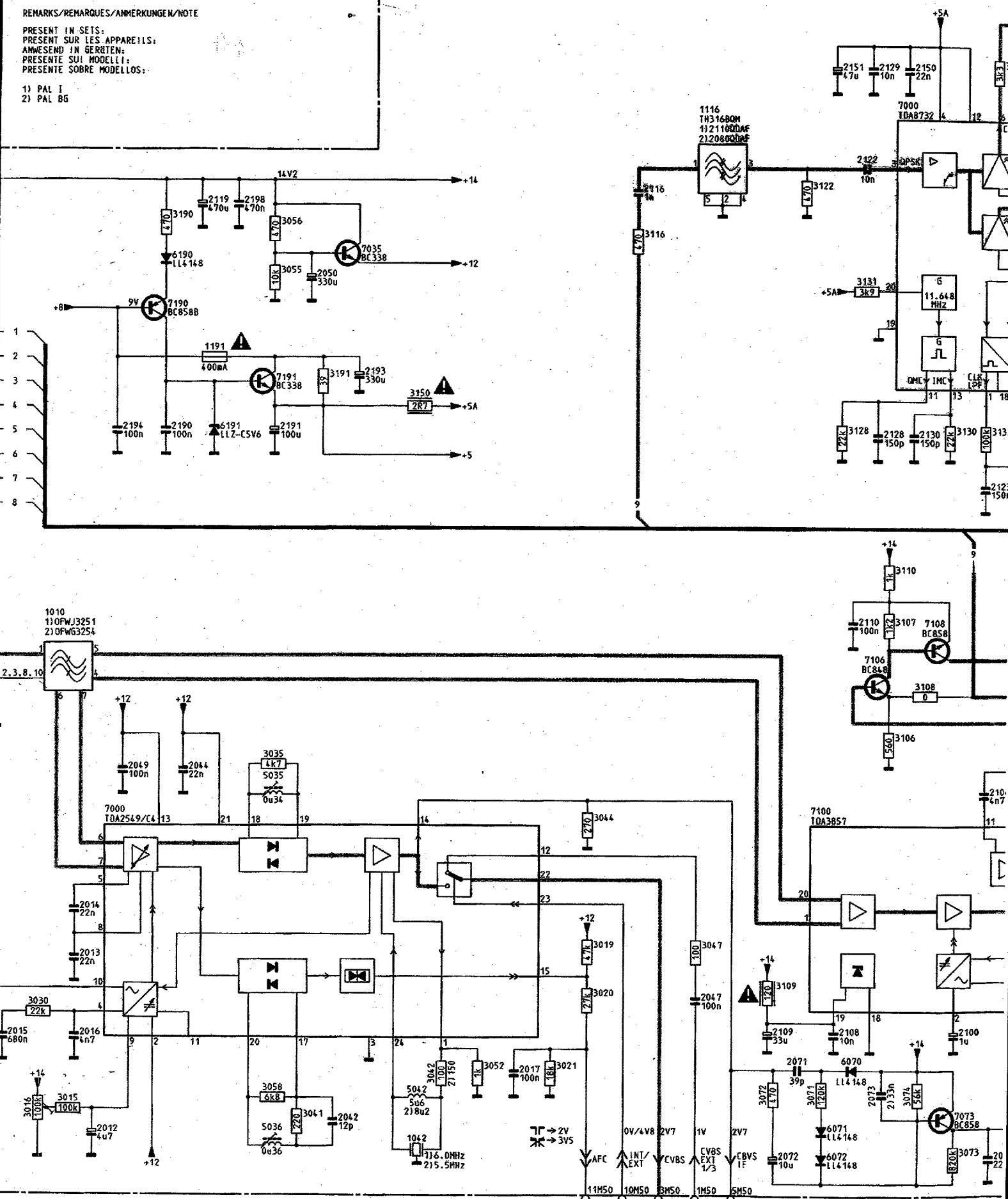
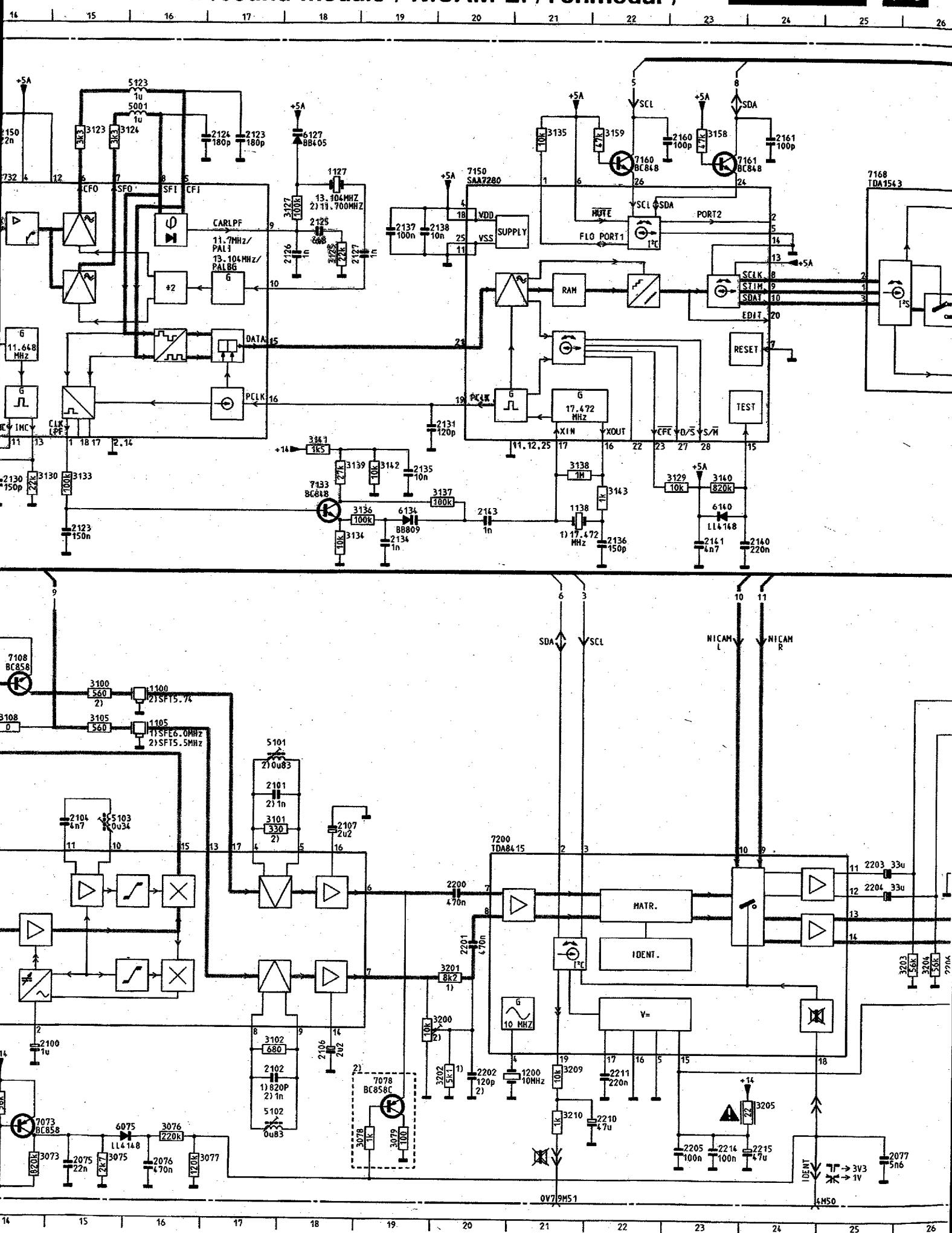
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG

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6075 LL4148
6140 LL4148
6134 BB809
6127 BB405
5123 1u
5001 1u
5101 2)0u83
5102 0u83
5103 0u34
1127 13.104MHZ 2)11.700MHZ
1138 1)17.472 MHz
1200 10MHz
CARLPF
11.7MHz/ PAL I
13.104MHz/ PALBG
DATA
PCLK
CLK
CFO
SFO
SFI
CFI
VDD
VSS
SUPPLY
RAM
RESET
TEST
MUTE
FLO PORT1
PORT2
SCLK
STIM
SDAT
EDIT
XIN
XOUT
CFC
D/S
S/W
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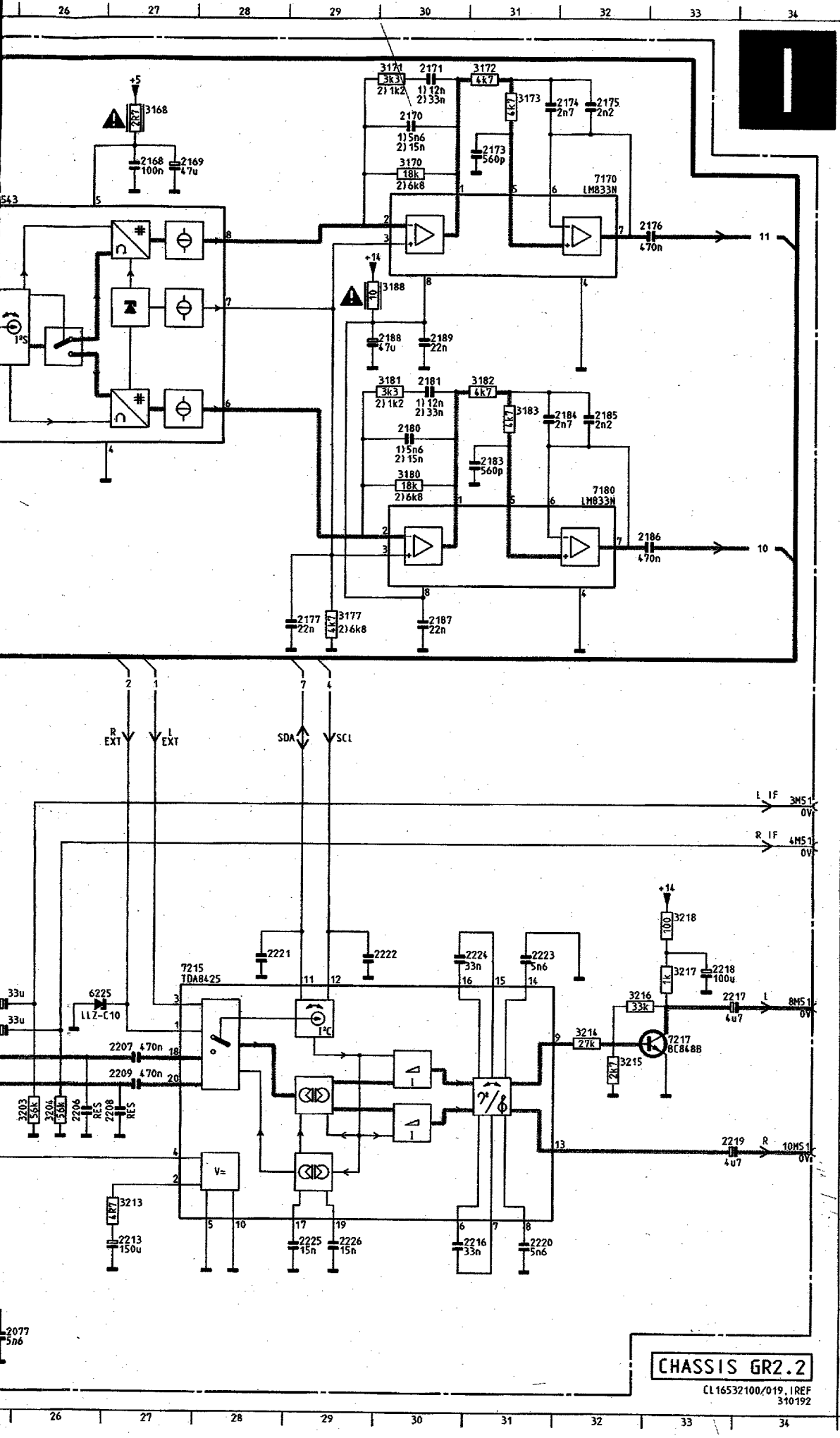
4M50

# Module FI/son NICAM

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| | 1100 | I16 | 3030 | M 3 | 7180 | F32 |
| | 1105 | I16 | 3035 | J 6 | 7190 | E 5 |
| A | 1116 | B11 | 3041 | N 6 | 7191 | F 6 |
| | 1127 | B18 | 3042 | N 8 | 7200 | K20 |
| | 1138 | G21 | 3044 | K10 | 7215 | K27 |
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| | 2015 | N 3 | 3072 | N12 | | |
| | 2016 | N 4 | 3073 | O14 | | |
| | 2017 | N 9 | 3074 | N14 | | |
| | 2042 | O 7 | 3075 | O15 | | |
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| C | 2050 | D 7 | 3079 | O19 | | |
| | 2071 | N12 | 3100 | I15 | | |
| | 2072 | O12 | 3101 | K17 | | |
| | 2073 | N13 | 3102 | M17 | | |
| | 2075 | O15 | 3105 | I15 | | |
| | 2076 | O16 | 3106 | J14 | | |
| | 2077 | O25 | 3107 | I14 | | |
| D | 2100 | N14 | 3108 | I14 | | |
| | 2101 | J17 | 3109 | M12 | | |
| | 2102 | N17 | 3110 | H14 | | |
| | 2104 | K15 | 3116 | D11 | | |
| | 2106 | N18 | 3122 | C13 | | |
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| | 2109 | N12 | 3125 | C18 | | |
| E | 2110 | I13 | 3127 | C18 | | |
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| | 2123 | G15 | 3133 | F15 | | |
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| | 2125 | C18 | 3135 | B21 | | |
| F | 2126 | C18 | 3136 | G19 | | |
| | 2127 | C18 | 3137 | F20 | | |
| | 2128 | F13 | 3138 | F21 | | |
| | 2129 | B13 | 3139 | F18 | | |
| | 2130 | F14 | 3140 | F23 | | |
| | 2131 | E20 | 3141 | F18 | | |
| | 2134 | G19 | 3142 | F19 | | |
| G | 2135 | F19 | 3143 | F22 | | |
| | 2136 | G22 | 3150 | F 8 | | |
| | 2137 | C19 | 3158 | B23 | | |
| | 2138 | C19 | 3159 | B22 | | |
| | 2140 | G24 | 3160 | F 2 | | |
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| | 2143 | G20 | 3168 | A27 | | |
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| | 2151 | B13 | 3171 | A30 | | |
| | 2160 | B23 | 3172 | A31 | | |
| | 2161 | B24 | 3173 | A31 | | |
| | 2168 | B27 | 3177 | G29 | | |
| | 2169 | B27 | 3180 | E30 | | |
| | 2170 | A30 | 3181 | D30 | | |
| | 2171 | A30 | 3182 | D31 | | |
| I | 2173 | B31 | 3183 | E31 | | |
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| J | 2183 | E31 | 3203 | L26 | | |
| | 2184 | E31 | 3204 | L26 | | |
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| | 2188 | D29 | 3209 | N21 | | |
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| | 2201 | L20 | 5001 | A16 | | |
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| L | 2204 | K25 | 5036 | O 6 | | |
| | 2205 | O23 | 5042 | N 8 | | |
| | 2206 | L26 | 5101 | J17 | | |
| | 2207 | L27 | 5102 | N17 | | |
| | 2208 | L27 | 5103 | K15 | | |
| | 2209 | L27 | 5123 | A16 | | |
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| | 2213 | N27 | 6072 | O13 | | |
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| | 2216 | N31 | 6134 | G19 | | |
| | 2217 | K33 | 6140 | G23 | | |
| | 2218 | K33 | 6190 | D 5 | | |
| N | 2219 | M33 | 6191 | F 5 | | |
| | 2220 | N31 | 6225 | K26 | | |
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| | 2222 | K29 | 7000 | B14 | | |
| | 2223 | K31 | 7035 | D 7 | | |
| | 2224 | K31 | 7073 | O14 | | |
| | 2225 | N29 | 7078 | N19 | | |
| | 2226 | N29 | 7100 | K13 | | |
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| O | 3013 | M 2 | 7108 | I14 | | |
| | 3014 | M 2 | 7133 | F18 | | |
| | 3015 | N 3 | 7150 | B20 | | |
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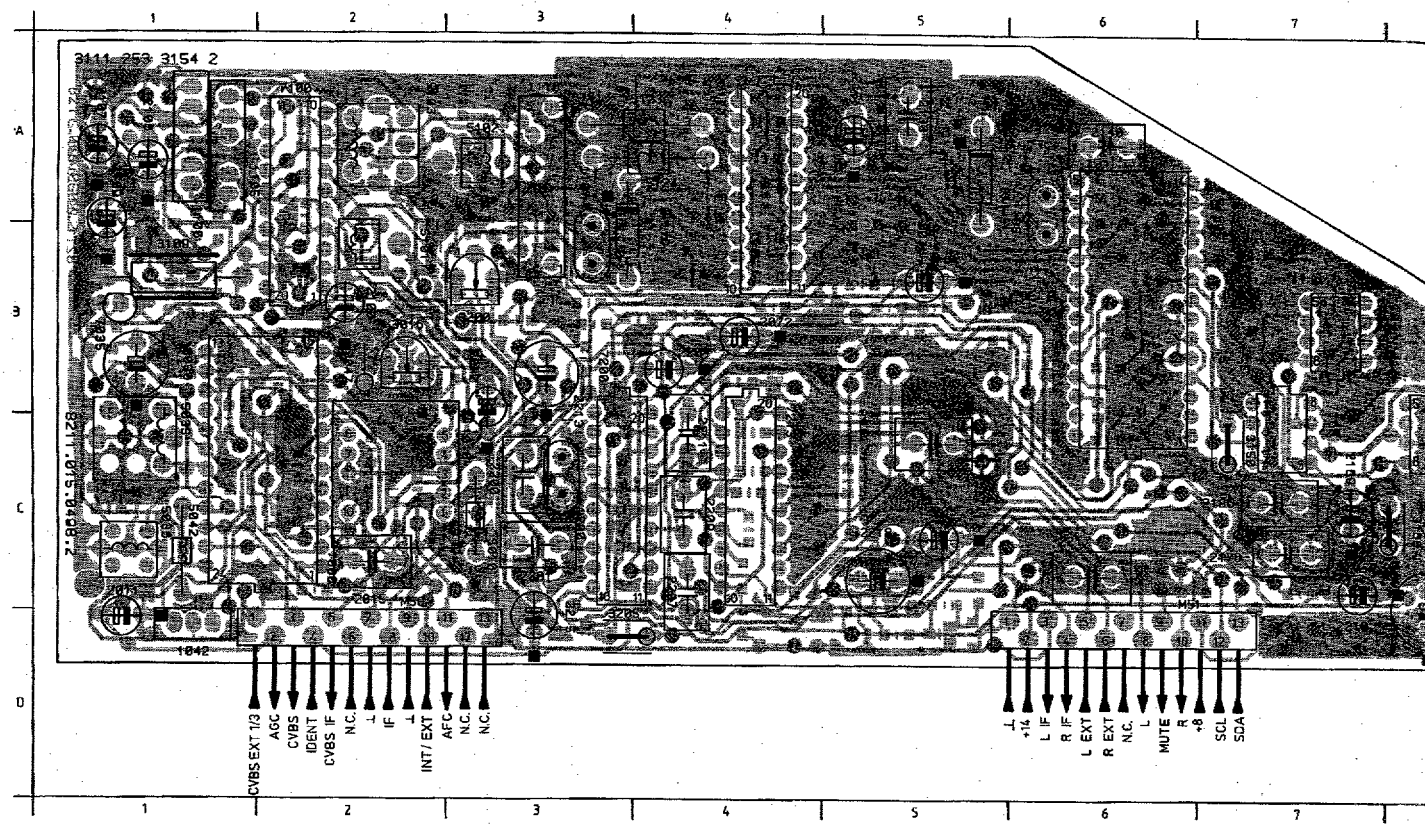
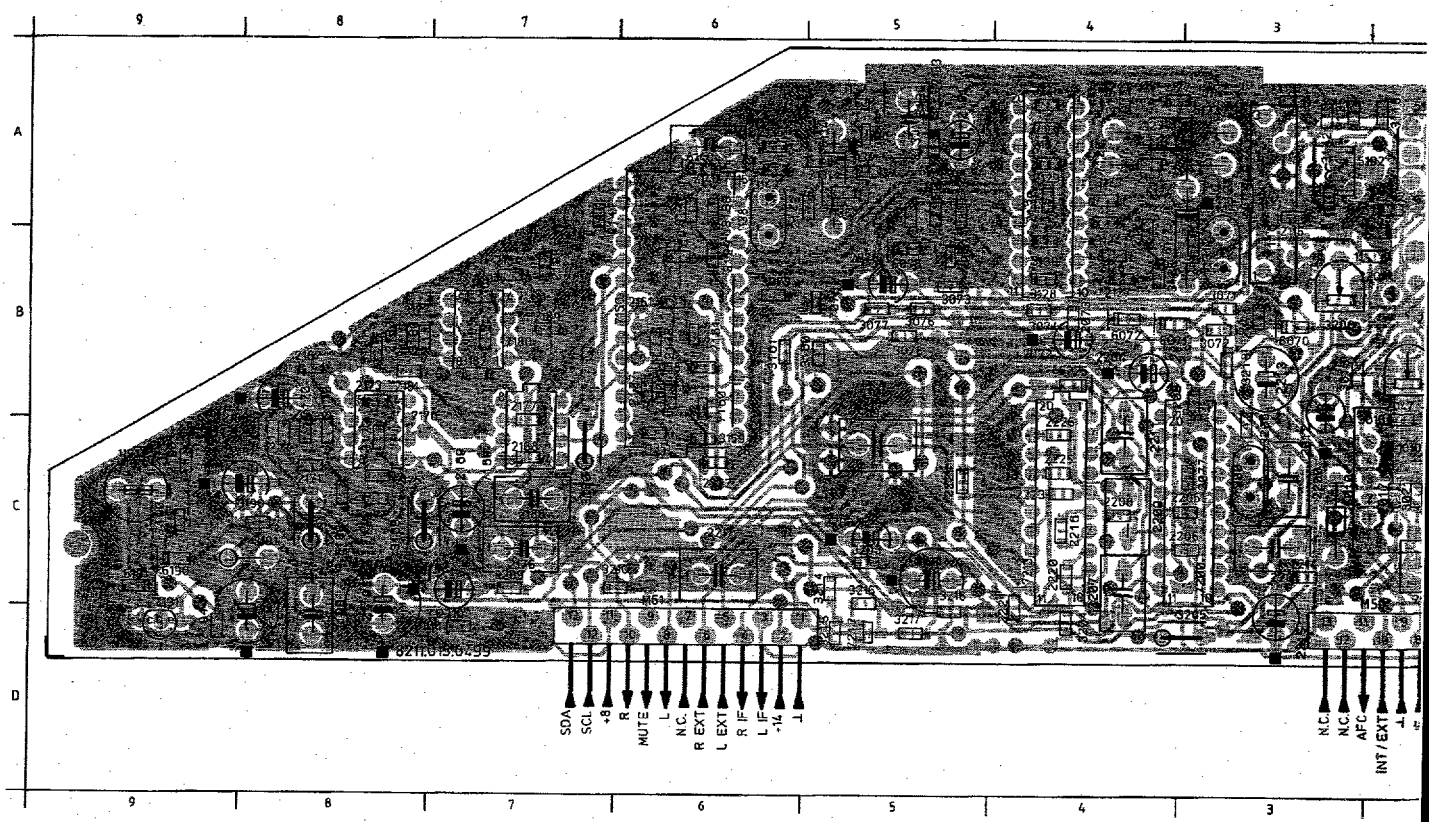
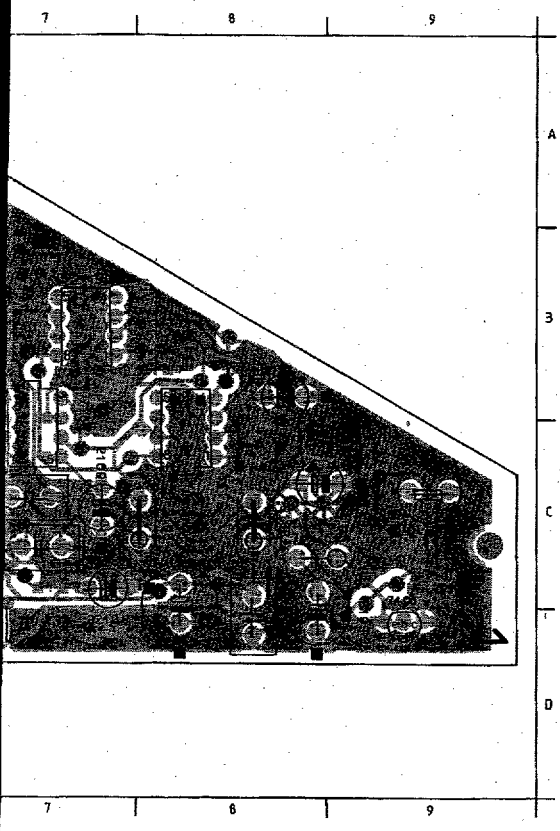
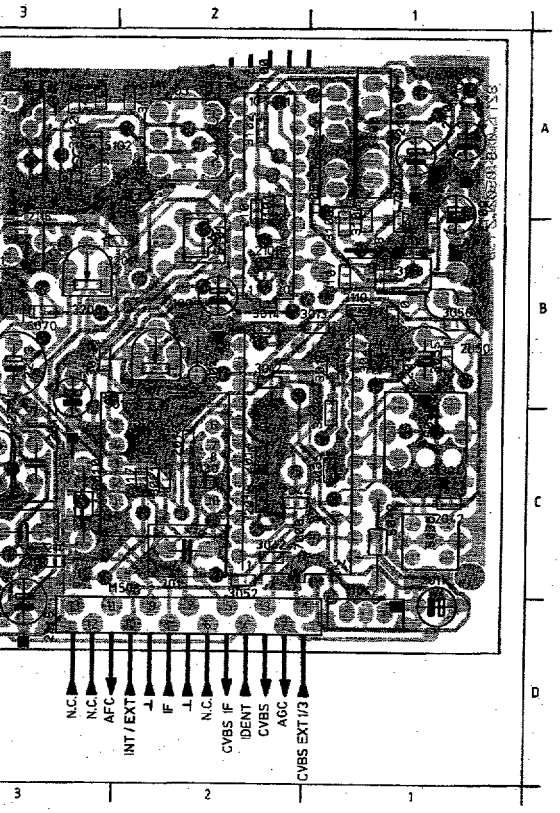
# NICAM IF/sound module / NICAM ZF/Tonmodul /



# Module FI/son NICAM



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| 1191 C9 | 3014 B2 | 6134 A5 |
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| 2011 D1 | 3016 B2 | 6190 C9 |
| 2012 C3 | 3019 B1 | 6191 C9 |
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| 2015 C2 | 3030 C2 | 7035 B1 |
| 2016 C2 | 3035 C1 | 7073 B5 |
| 2017 C2 | 3041 C1 | 7078 B5 |
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| 2050 B1 | 3055 B1 | 7133 A5 |
| 2071 B3 | 3056 B1 | 7150 C6 |
| 2072 B4 | 3058 C1 | 7160 C6 |
| 2073 B4 | 3071 B3 | 7161 B6 |
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| 2101 B2 | 3076 B5 | 7191 D9 |
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| 2119 C8 | 3107 B1 | |
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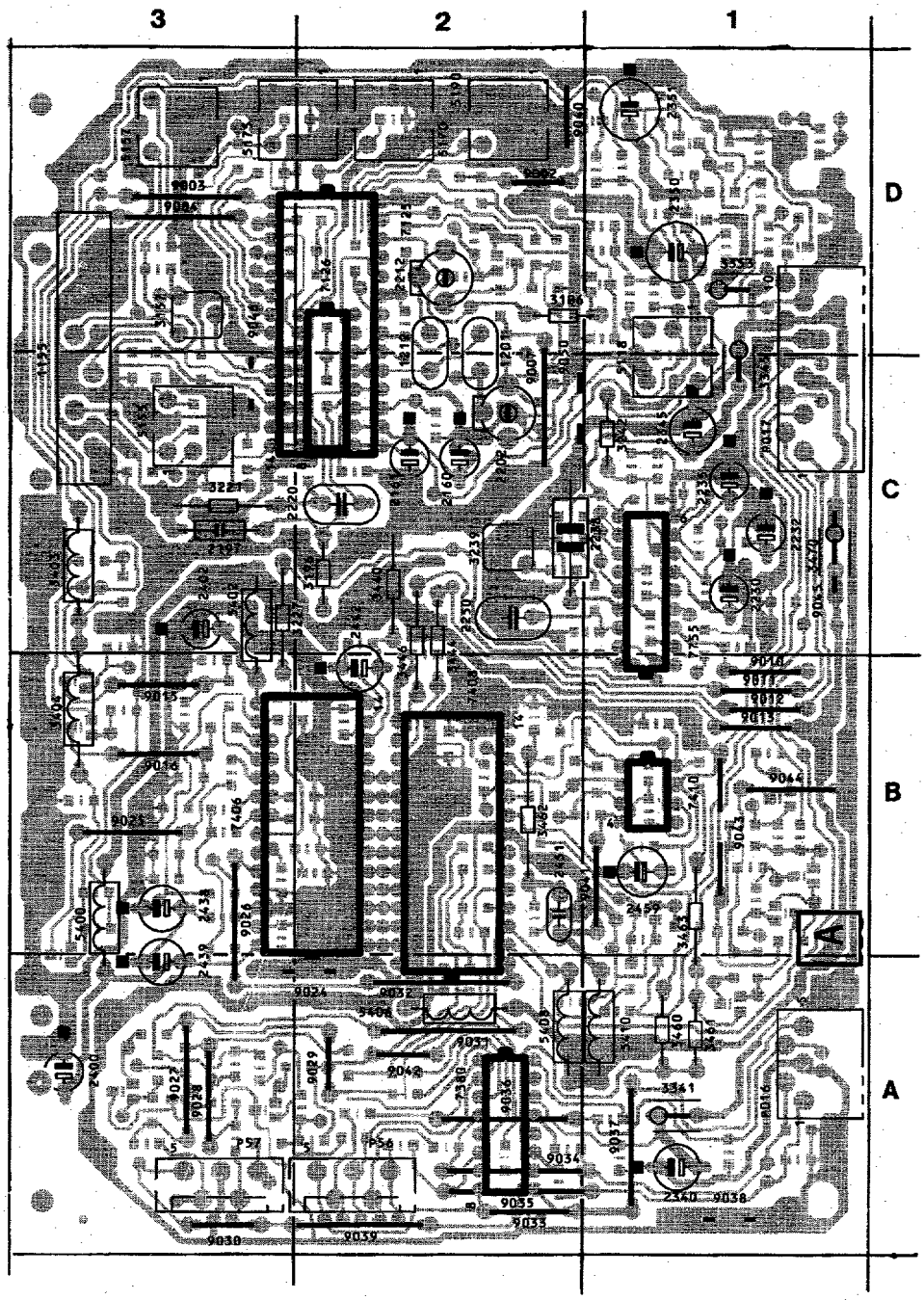


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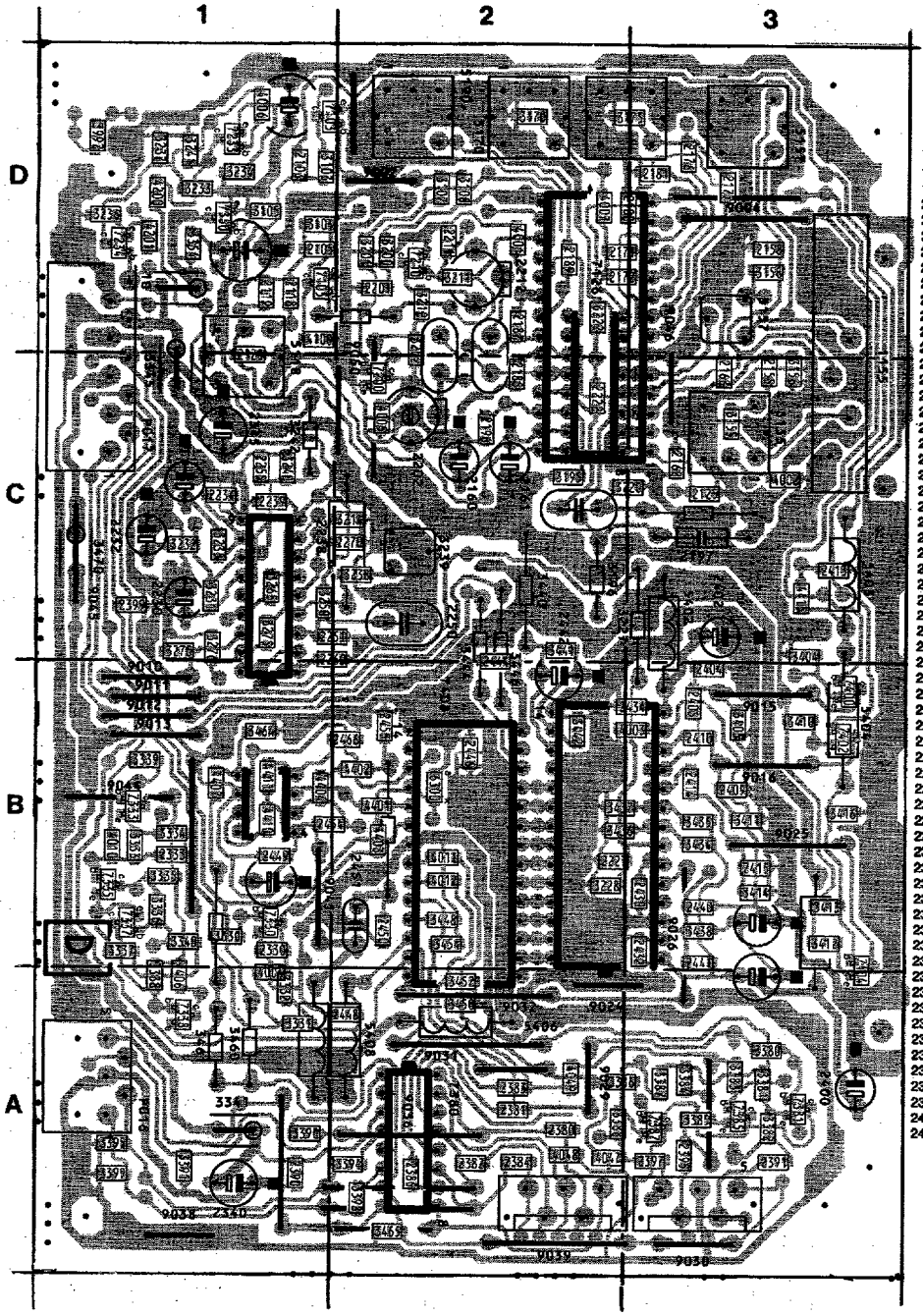


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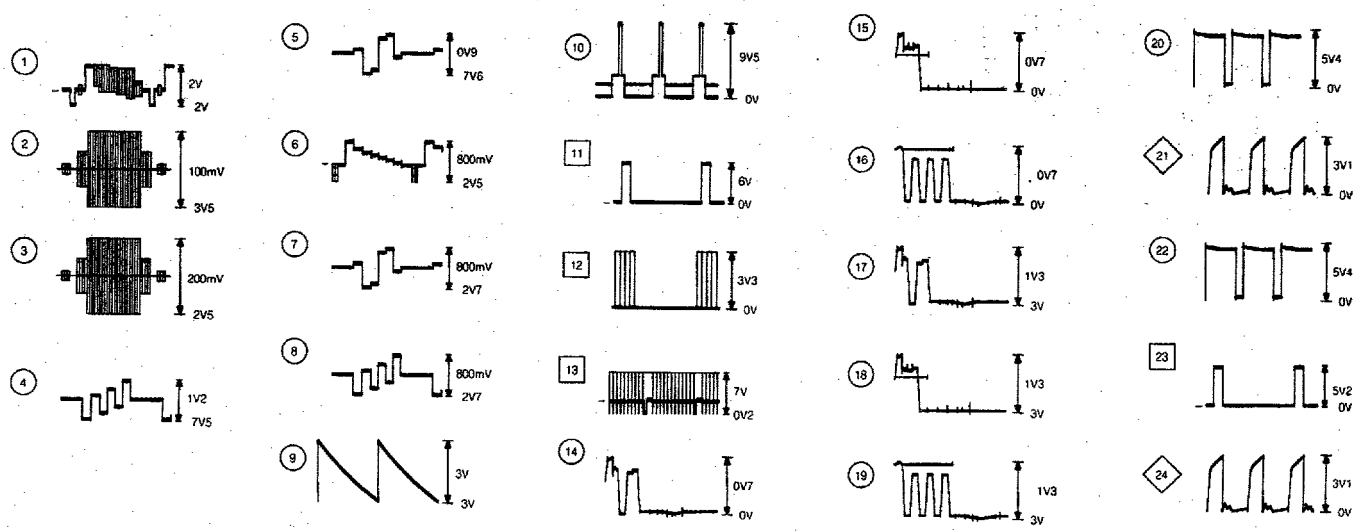

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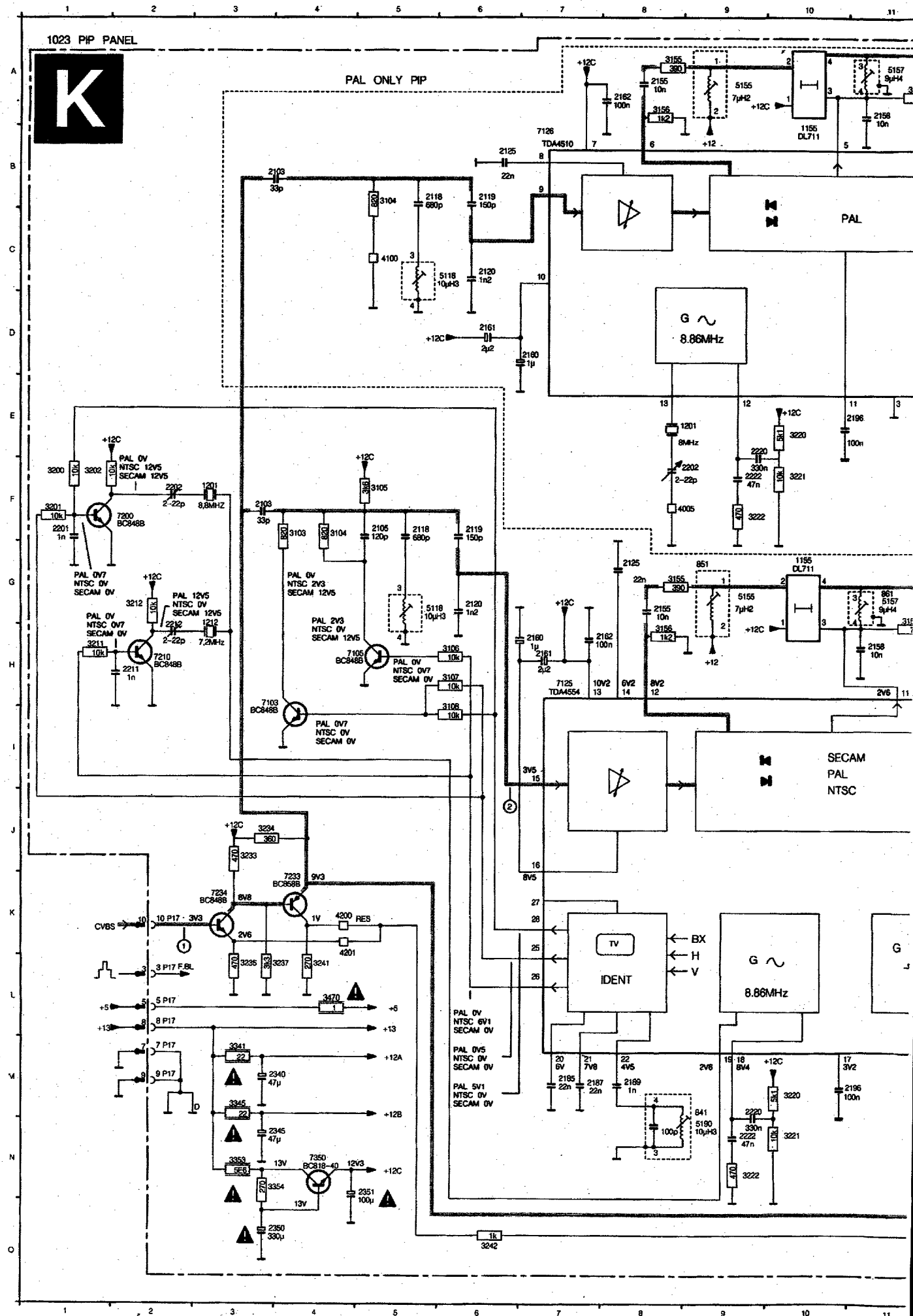

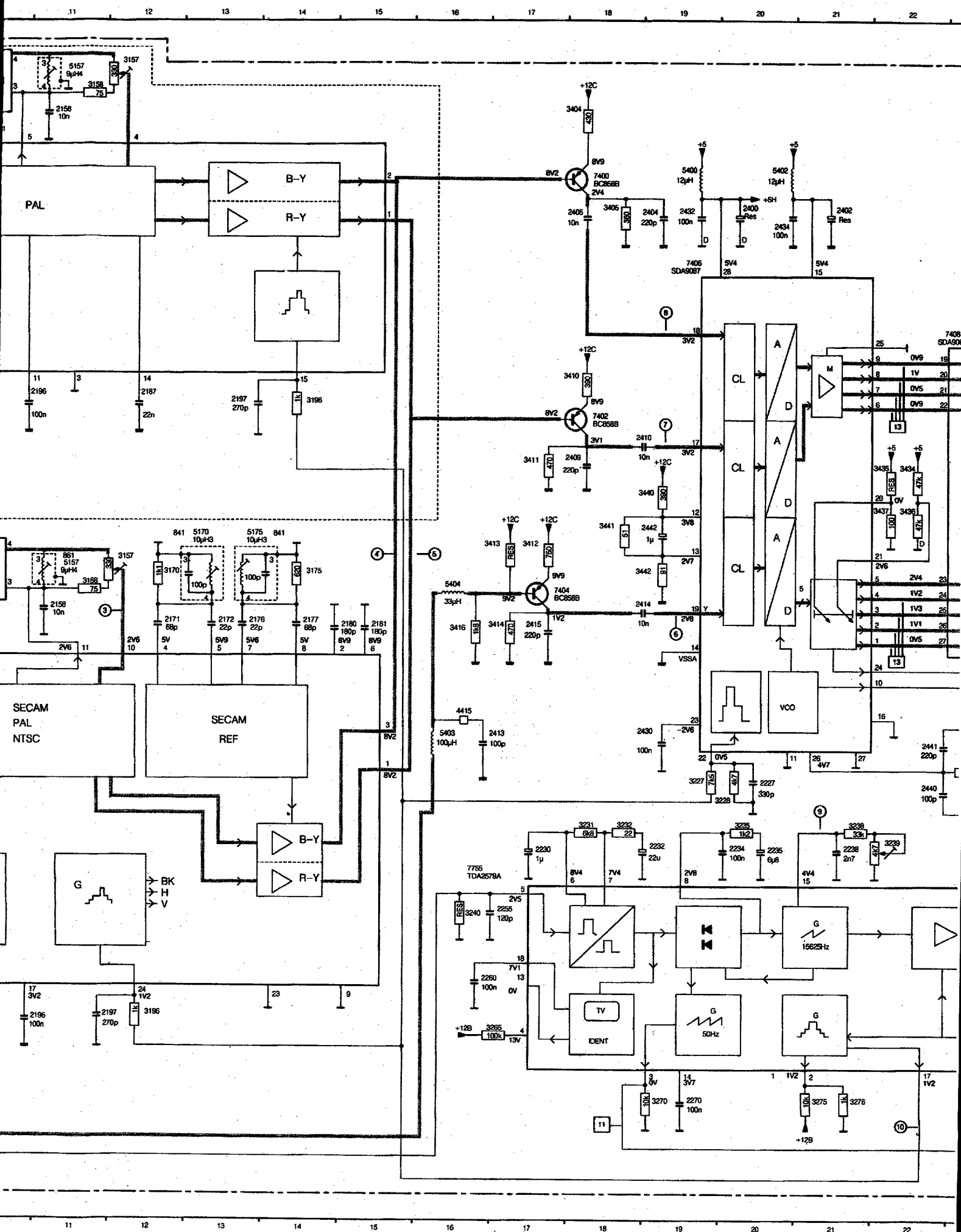
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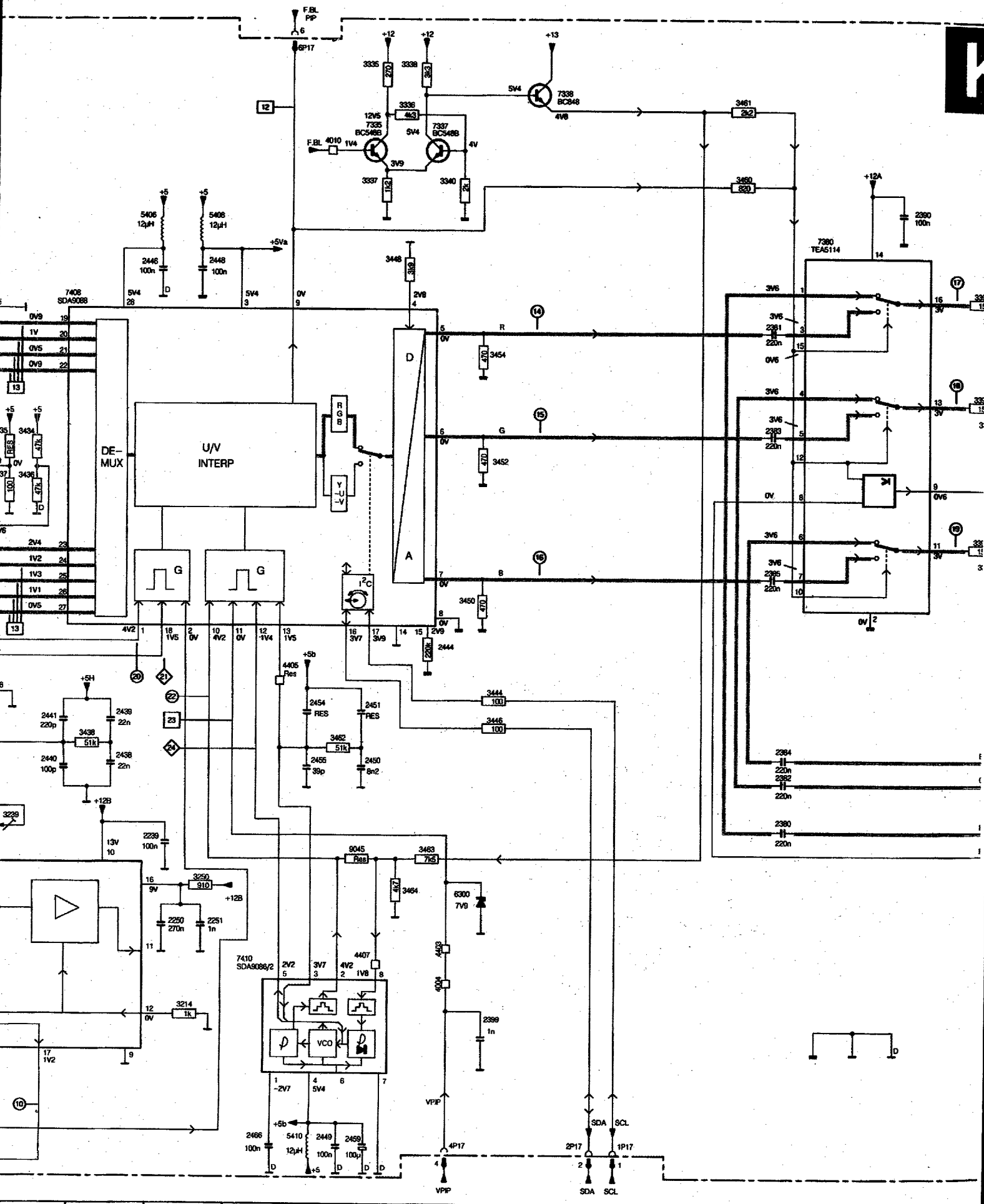
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+5b
VPIP
SDA
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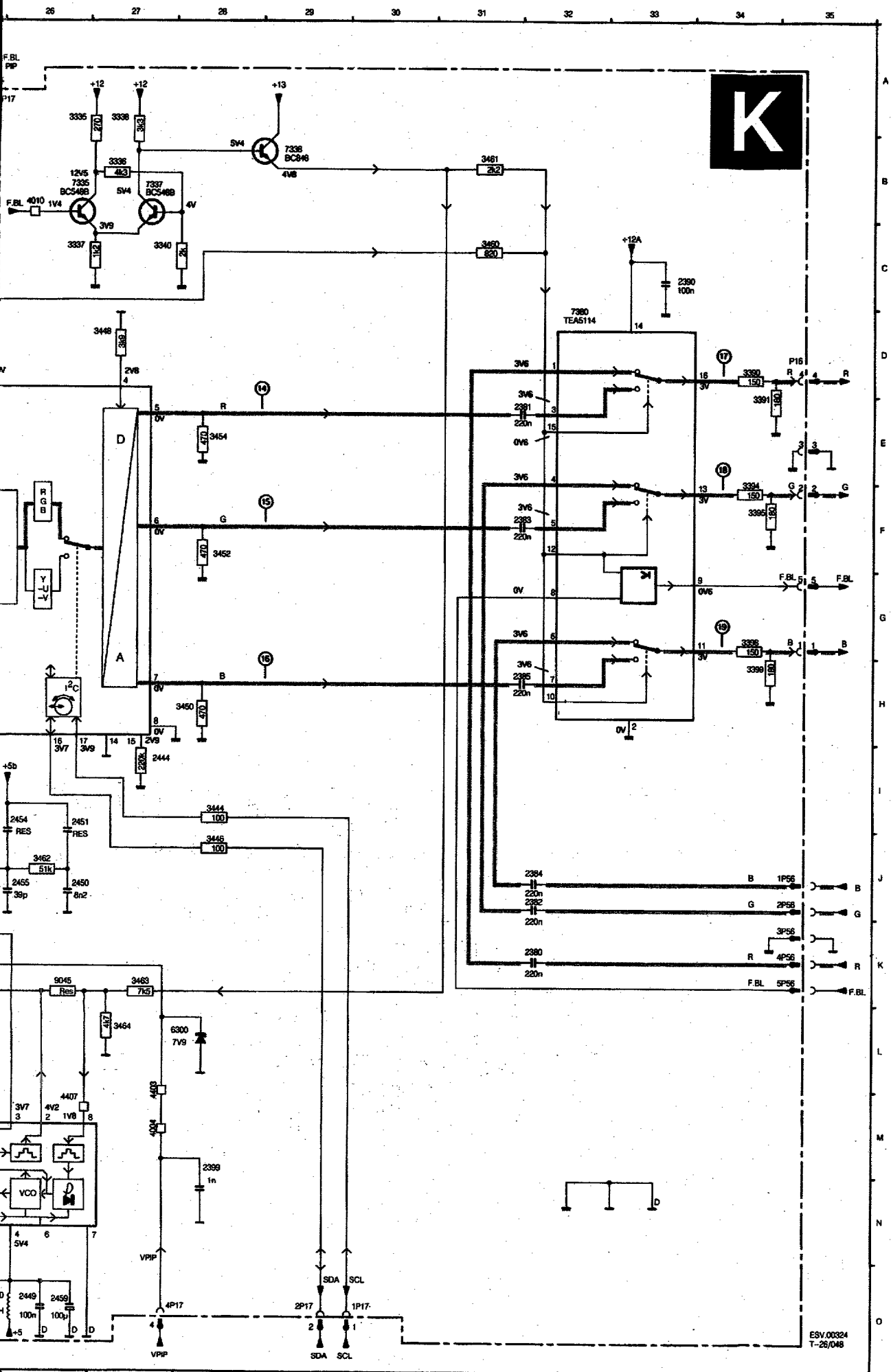


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| 2118 | B5 | 3345 | M3 |
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| 2125 | B6 | 3395 | F34 |
| 2125 | G6 | 3398 | G34 |
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| 2155 | G8 | 3404 | A18 |
| 2158 | A11 | 3405 | C18 |
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| 2197 | E13 | 3454 | E28 |
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| 2202 | F2 | 3462 | J26 |
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| 2212 | H2 | 3470 | L4 |
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| 2230 | K17 | 4201 | K4 |
| 2232 | K19 | 4403 | M27 |
| 2234 | K20 | 4405 | I25 |
| 2235 | K20 | 4407 | M26 |
| 2238 | K21 | 4415 | I16 |
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| 2440 | J22 | 7404 | H17 |
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| 2444 | I27 | 7410 | M25 |
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| 3104 | B5 | | |
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| 3105 | F5 | | |
| 3106 | H6 | | |
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| 3170 | G12 | | |
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| 3200 | F1 | | |
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| 3202 | F1 | | |
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| 3240 | L16 | | |
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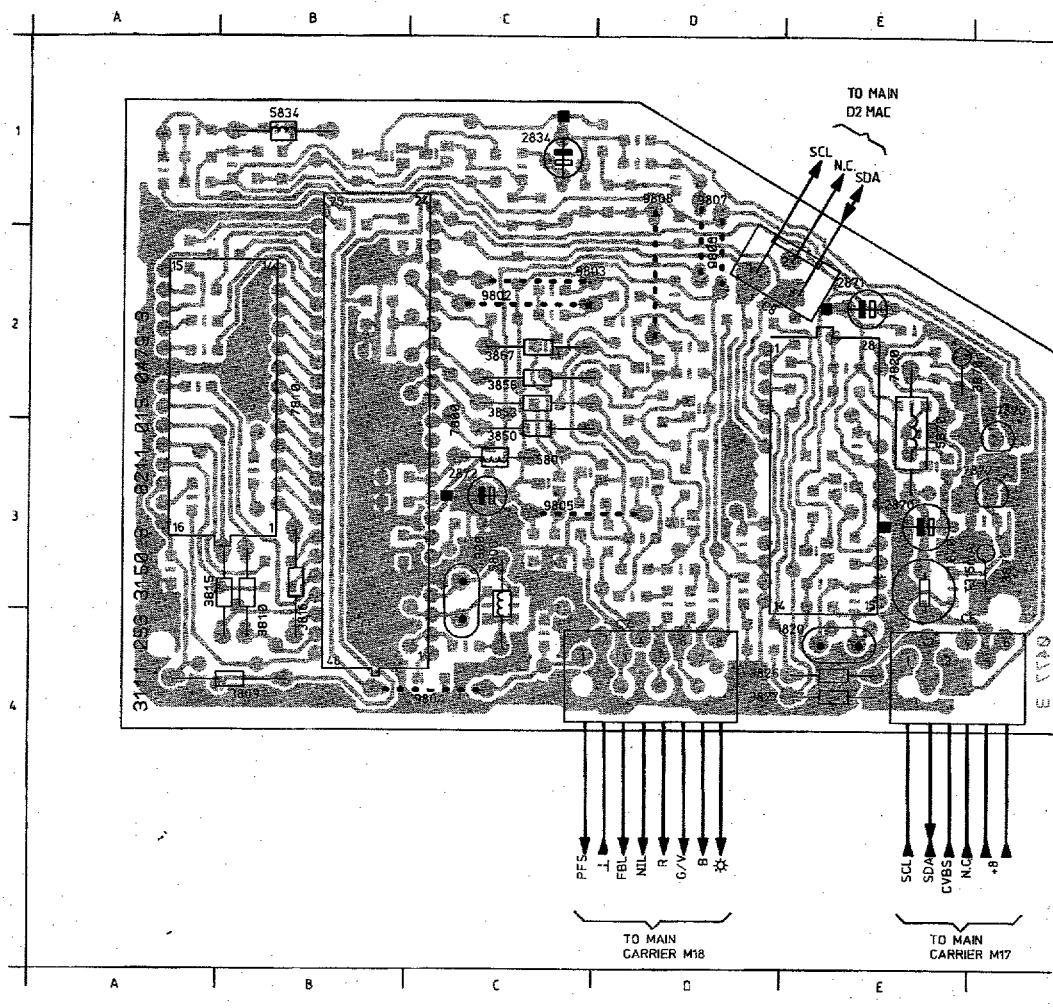
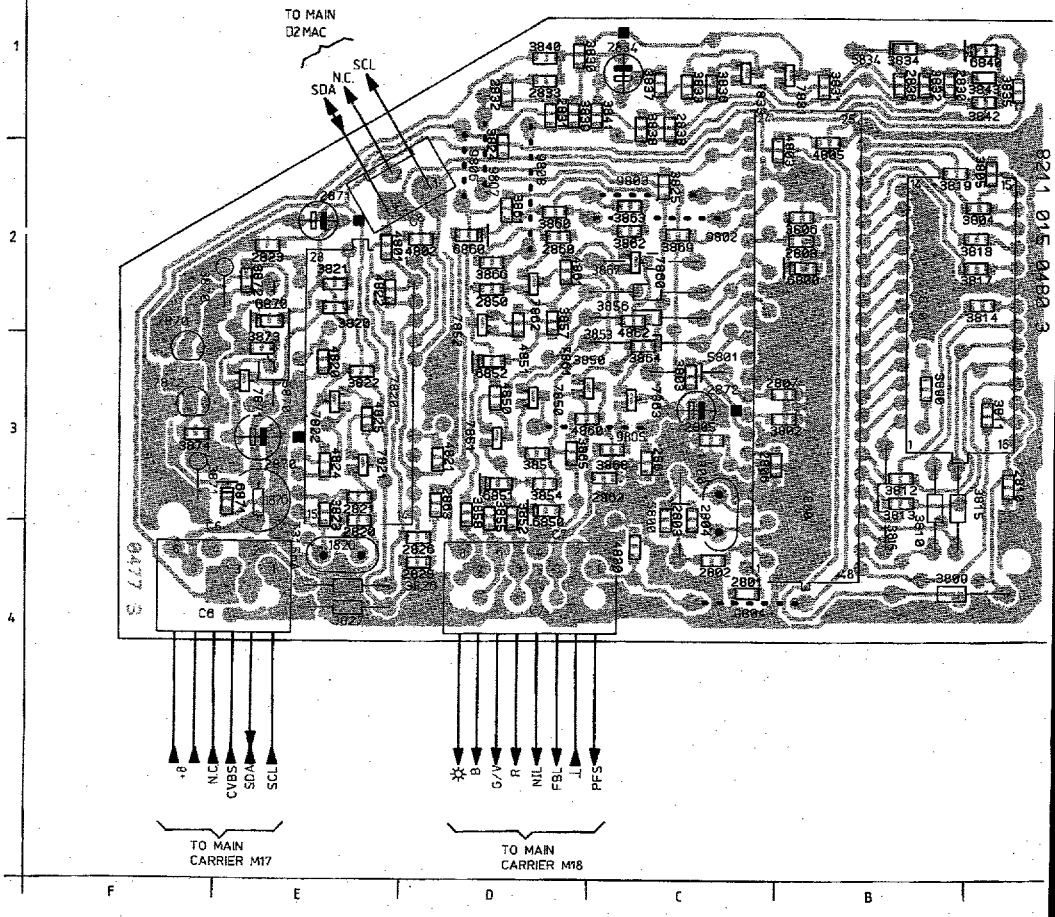
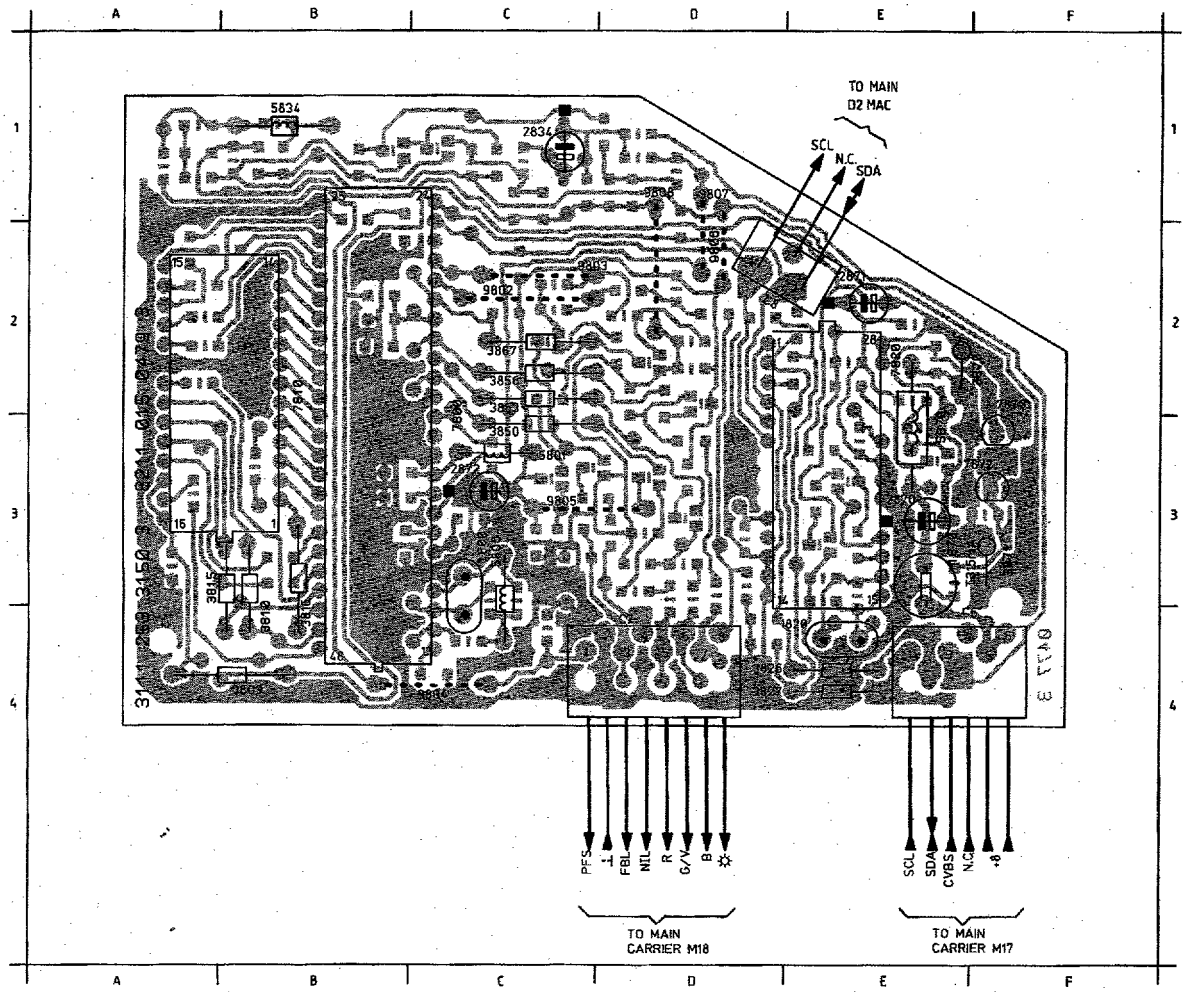
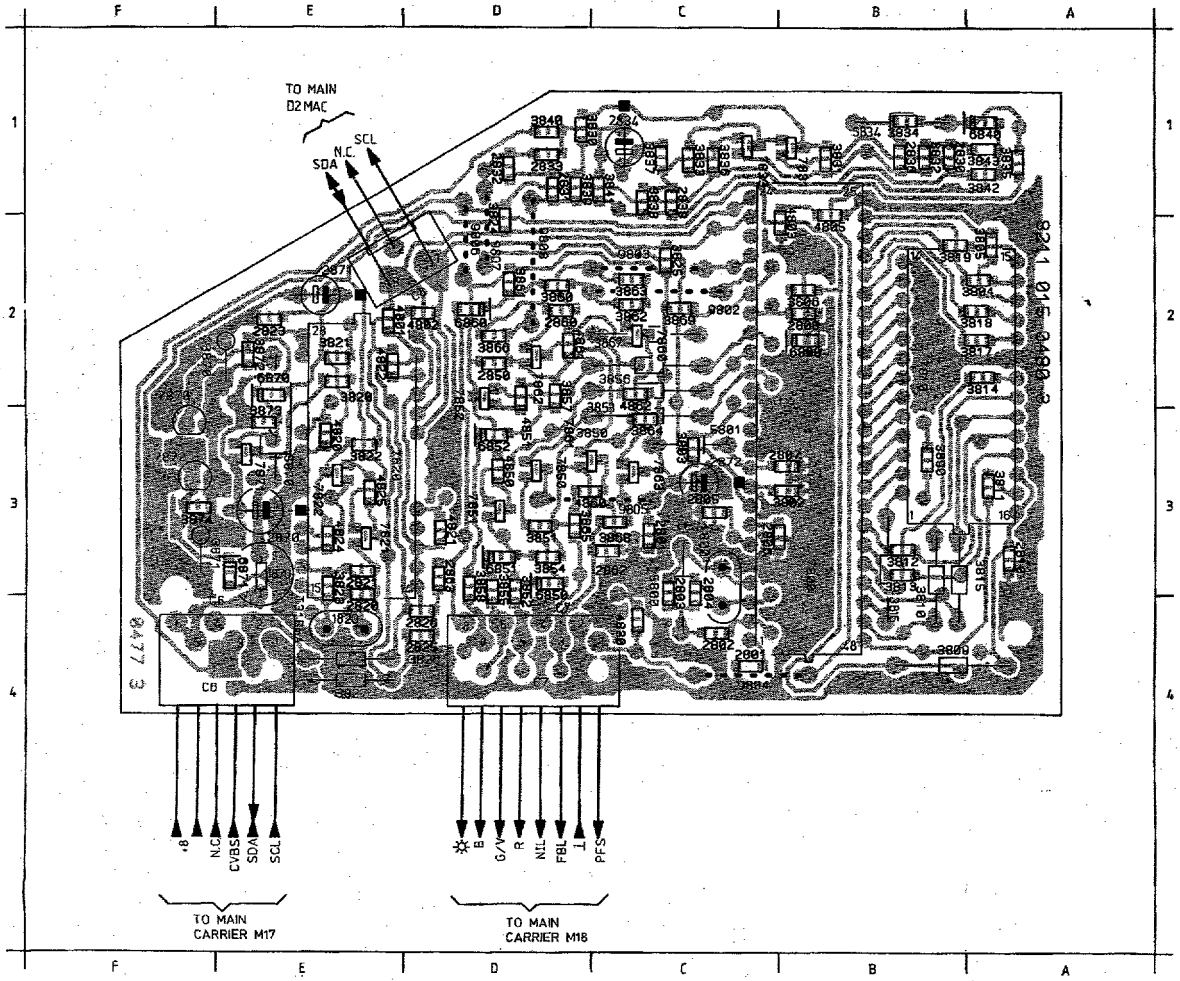

TO MAIN D2 MAC
SCL
N.C.
SDA
PFS
T
FBL
NIL
R
G/Y
B
SCL
SDA
CVBS
N.C.
+8
TO MAIN CARRIER M18
TO MAIN CARRIER M17


TO MAIN D2 MAC
SCL
N.C.
SDA
+8
N.C.
CVBS
SDA
SCL
B
G/Y
R
NIL
FBL
T
PFS
TO MAIN CARRIER M17
TO MAIN CARRIER M18

# Teletext / Videotext / Teletexte




C6 E4
C7 D4
C8 D2
1800 C3
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1870 E3
2801 C4
2802 C4
2803 C4
2804 C4
2805 C3
2806 B3
2807 B3
2808 B2
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2820 E4
2821 E3
2823 E2
2825 D4
2826 D4
2830 A1
2831 D1
2832 D1
2833 D1
2834 C1
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3857 D3
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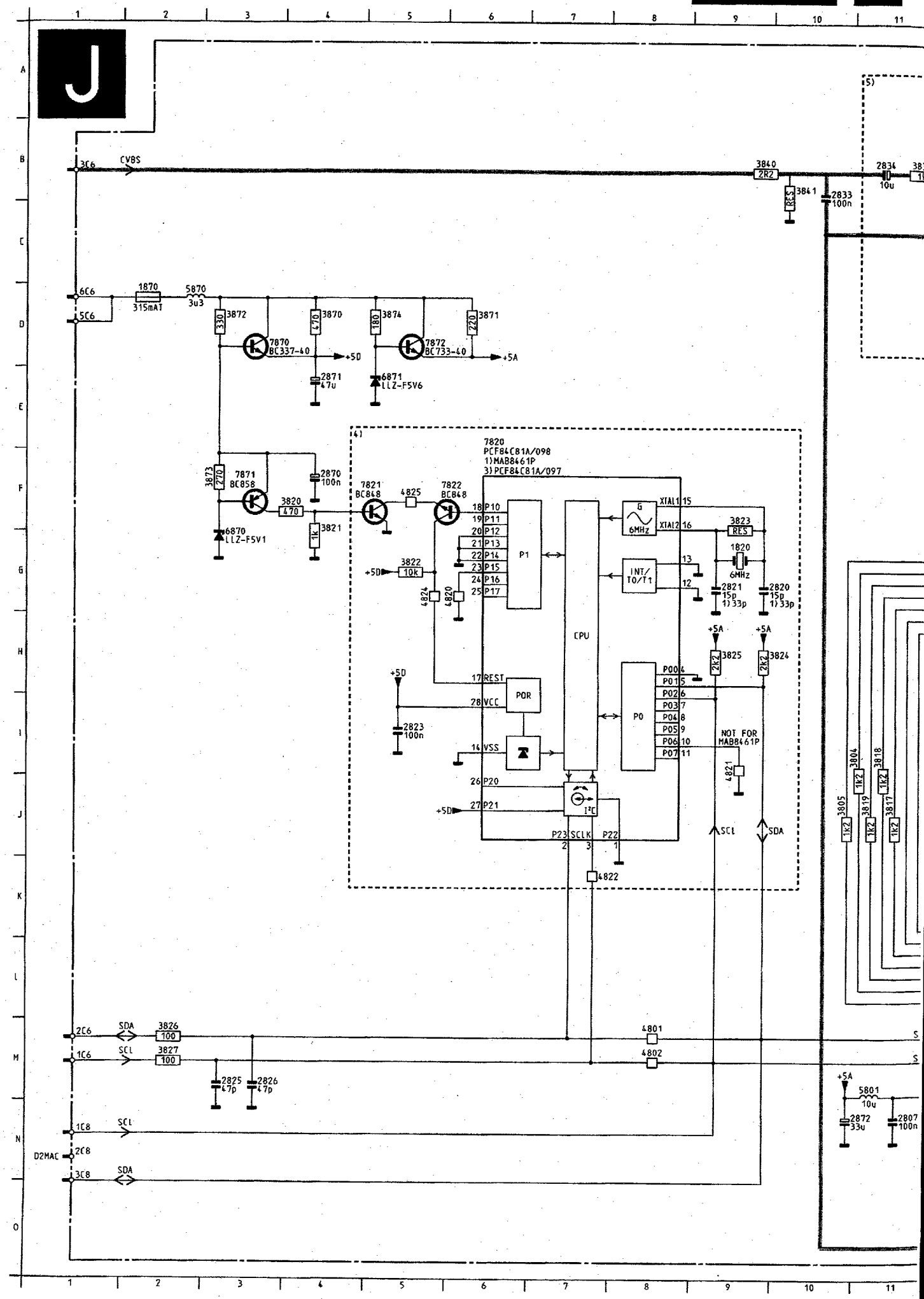

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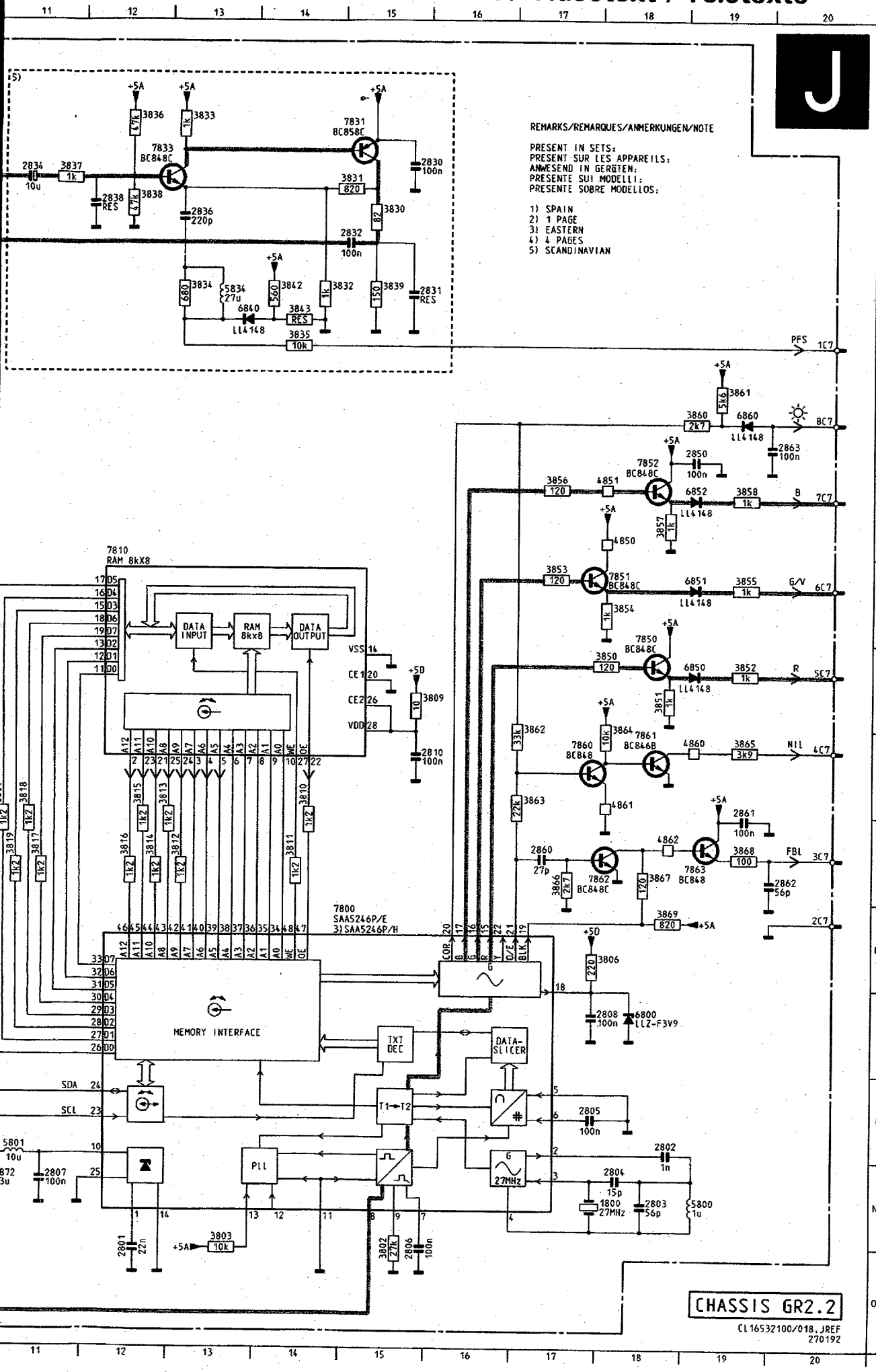


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| | 2803 | N18 | 7821 | F 5 |
| | 2804 | N18 | 7822 | F 5 |
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| | 2808 | L17 | 7851 | G18 |
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| | 2823 | I 5 | 7862 | J18 |
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| | 2830 | B15 | 7871 | F 3 |
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| C | 2833 | B10 | | |
| | 2834 | B11 | | |
| | 2836 | C13 | | |
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| | 2861 | I19 | | |
| D | 2862 | J20 | | |
| | 2863 | E20 | | |
| | 2870 | F 4 | | |
| | 2871 | E 4 | | |
| | 2872 | N10 | | |
| | 3802 | O15 | | |
| | 3803 | N13 | | |
| | 3804 | I11 | | |
| E | 3805 | J10 | | |
| | 3806 | K17 | | |
| | 3809 | H15 | | |
| | 3810 | I14 | | |
| | 3811 | J14 | | |
| | 3812 | J13 | | |
| | 3813 | I12 | | |
| F | 3814 | J12 | | |
| | 3815 | I12 | | |
| | 3816 | J12 | | |
| | 3817 | J11 | | |
| | 3818 | I11 | | |
| | 3819 | J11 | | |
| | 3820 | F 4 | | |
| | 3821 | F 4 | | |
| G | 3822 | G 5 | | |
| | 3823 | F 9 | | |
| | 3824 | H 9 | | |
| | 3825 | H 9 | | |
| | 3826 | M 2 | | |
| | 3827 | M 2 | | |
| | 3830 | B15 | | |
| | 3831 | B15 | | |
| H | 3832 | C14 | | |
| | 3833 | A13 | | |
| | 3834 | C13 | | |
| | 3835 | D14 | | |
| | 3836 | A12 | | |
| | 3837 | B11 | | |
| | 3838 | B12 | | |
| I | 3839 | C15 | | |
| | 3840 | B 9 | | |
| | 3841 | B10 | | |
| | 3842 | C14 | | |
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| | 3850 | H18 | | |
| | 3851 | H18 | | |
| | 3852 | H19 | | |
| J | 3853 | G17 | | |
| | 3854 | G18 | | |
| | 3855 | G19 | | |
| | 3856 | F17 | | |
| | 3857 | F18 | | |
| | 3858 | F19 | | |
| | 3860 | E19 | | |
| K | 3861 | D19 | | |
| | 3862 | H17 | | |
| | 3863 | I17 | | |
| | 3864 | H18 | | |
| | 3865 | I19 | | |
| | 3866 | J17 | | |
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| | 3868 | J19 | | |
| L | 3869 | K18 | | |
| | 3870 | D 4 | | |
| | 3871 | D 6 | | |
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| | 4801 | M 8 | | |
| M | 4802 | M 8 | | |
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| N | 4860 | I19 | | |
| | 4861 | I18 | | |
| | 4862 | J18 | | |
| | 5800 | N19 | | |
| | 5801 | M11 | | |
| | 5834 | C13 | | |
| | 5870 | D 2 | | |
| | 6800 | L18 | | |
| O | 6840 | D13 | | |
| | 6850 | H19 | | |
| | 6851 | G19 | | |
| | 6852 | F19 | | |
| | 6860 | E19 | | |

# Electrical adjustments

## Setting conditions

All electrical settings should be made under the following conditions:

* supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
* warming-up time ≈ 10 minutes
* the voltages and oscillograms have been measured with regard to tuner earth.
* measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

## 1. Settings on the carrier board

**1.1 +148V/+95V supply voltage**

Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

**1.2 Focusing**

This is set using the focusing potentiometer (on the top of the line output transformer).

**1.3 Vg2 setting**

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

* +145V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

**1.4 Horizontal synchronization**

Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

**1.5 Horizontal centring**

Set using potentiometer 3461.

**1.6 Vertical centring**

Set using potentiometer 3516.

**1.7 Picture height**

Set using potentiometer 3504.

**1.8 Chroma bandpass filter**

**a. Setting for PAL/SECAM sets (TDA4650)**

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.
Set 5301 to maximum amplitude.
Remove the interconnection.

**b. Setting for PAL sets (TDA4510)**

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305 (TDA4650).Set 5301 to maximum amplitude.

**1.9 Chroma auxiliary oscillator**

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

**1.10 SECAM demodulators for PAL/SECAM sets (TDA4650)**

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306 (TDA4650). Set 5304 to minimum amplitude.Connect the oscilloscope to pin 3-IC7306 (TDA4650). Set 3312 to minimum amplitude.

**1.11 White balance**

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set the value of "Green" to 51, and the Value of "Blue" to 46. In most cases no futher adjustments are required.

**1.12 Peak white limit**

Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:

- 43 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

**1.13 Cut-off points of the picture tube**

Connect a pattern generator and select a black picture. Switch on the service menu (see section 9) and select "CUT OFF".
Set the value of "Red" to 56, and fore "Green" to 16, and for "Blue" to 15. In most cases no futher adjustments are required.

**1.14 Options**

Switch on the service menu and select "OPTION 1" or "OPTION 2".
Switch the options "ON" and "OFF" according to whether the following options are present:

- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.
- "SIXTEEN/NINE" for switching between normal screen size and wide screen size.

**MAIN PANEL**

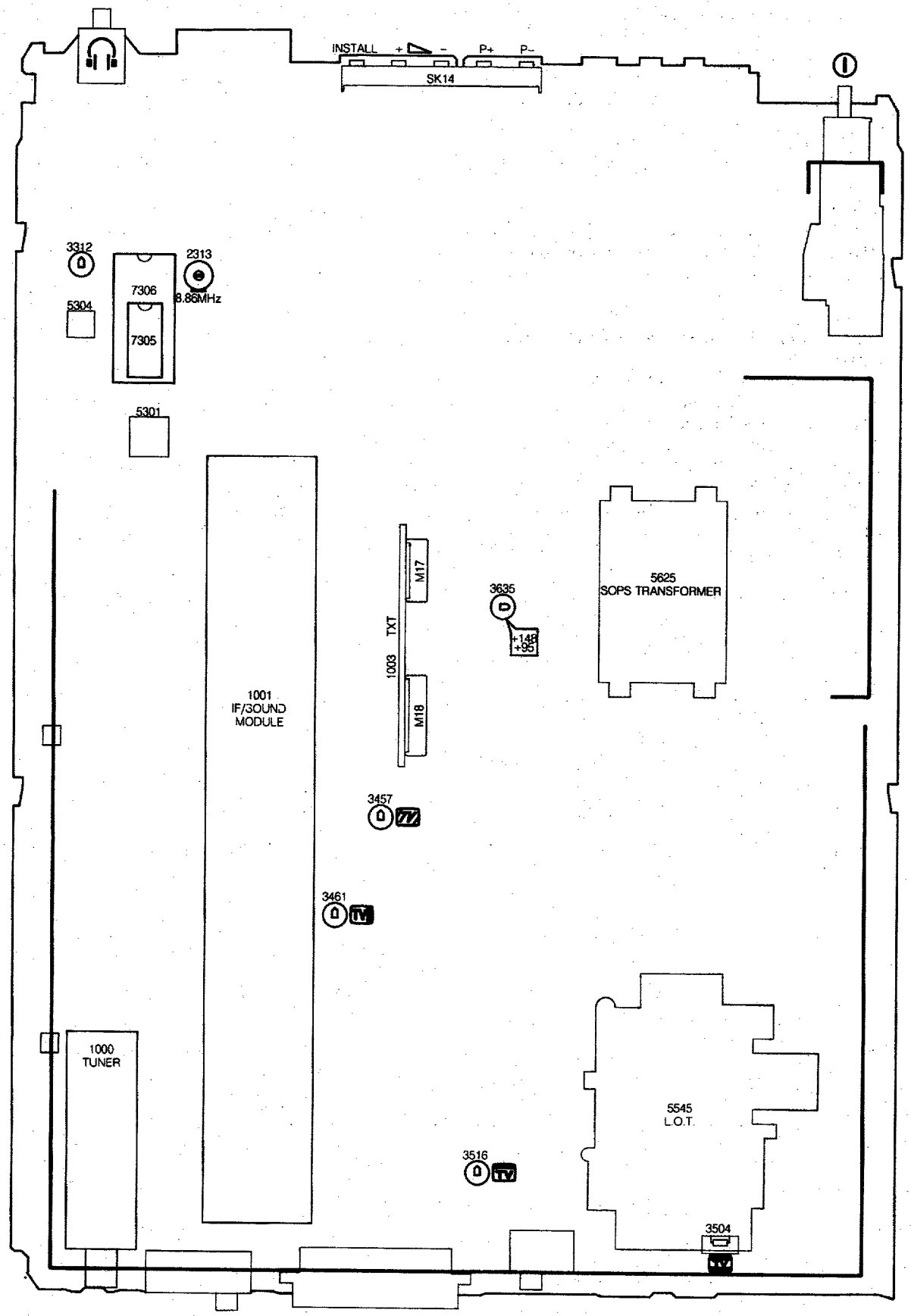



Fig. 7.1

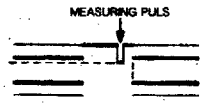



Fig. 7.2

## 2. MF/sound module adjustment (Fig 7.3)

### 2.1 The M.F. sound modulator

**a. For multi-system France (BGLI).**

**Stereo + mono:**

- Connect a pattern generator (e.g PM 5518) to the tuner and adjust the generator to SECAM L with a frequency of 47.25 MHz (SECAM L'). Adjust L 5080 to minimum picture distortion.
- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

**Stereo:**

- Connect an oscilloscope to pin 17 of IC 7100 (TDA 3856). Using L 5104 adjust the amplitude of the signal to its minimum value.

**b. For Europe (BG) stereo and East-European multi system (BGDK) stereo.**

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.
- Connect an oscilloscope to pin 15 of IC 7101 (TDA 3857). Using L 5104 adjust the amplitude of the signal to its minimum value.

**c. For NICAM (BGI) stereo.**

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.
- Connect an oscilloscope to pin 15 of IC 7100 (TDA 3857). Using L 5103 adjust the amplitude of the signal to its minimum value.

### 2.2 The FM sound modulator

**a. For multi system France (BGLI) + Europe + mono UK.**

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L= 3kHz and R= 1kHz.

- 5.5 MHz

Connect an oscilloscope to pin 2 of M 24. Using L 5105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Connect an oscilloscope to pin 3 of M 23. Using L 5103 adjust the amplitude to its maximum value.

**b. For East-European multi system (BGDK).**

- 6.5 MHz.

Adjust the pattern generator to SECAM DK with a frequency of 475.25 MHz.
Connect an oscilloscope to pin 2 of M 24. Using L 5105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L= 3kHz and R= 1kHz.
Connect an oscilloscope to pin 3 of M 23. Using L 5103 adjust the amplitude to its maximum value.

**c. For NICAM**

- NICAM I.

Adjust the pattern generator to PAL I with a frequency of 475.25 MHz.
Select analogue sound.
Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857). Using L 5102 adjust the amplitude to its maximum value.

- NICAM BG.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.
Select analogue stereo sound with L= 3kHz and R= 1kHz.

* 5.5 MHz.

Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857).
Using L 5102 adjust the amplitude to its maximum value.

* 5.74 MHz.

Connect an oscilloscope to pin 6 of IC 7100 (TDA 3857).
Using L 5101 adjust the amplitude to its maximum value.

### 2.3 AFC and picture demodulation:

Adjust the pattern generator to the system given in the table below (PAL BGI and SECAM BGDK to 475.25 MHz, SECAM L' to 47.25 MHz).

- Connnect an oscilloscope to pin 3 of connector G 29 and using L 5035 or L 5037 (see table) adjust the amplitude to its minimum value.
- Connect an oscilloscope to pin 11 of connector G 29 and using L 5036 or L 5038 (see table) adjust to 2V Dc.

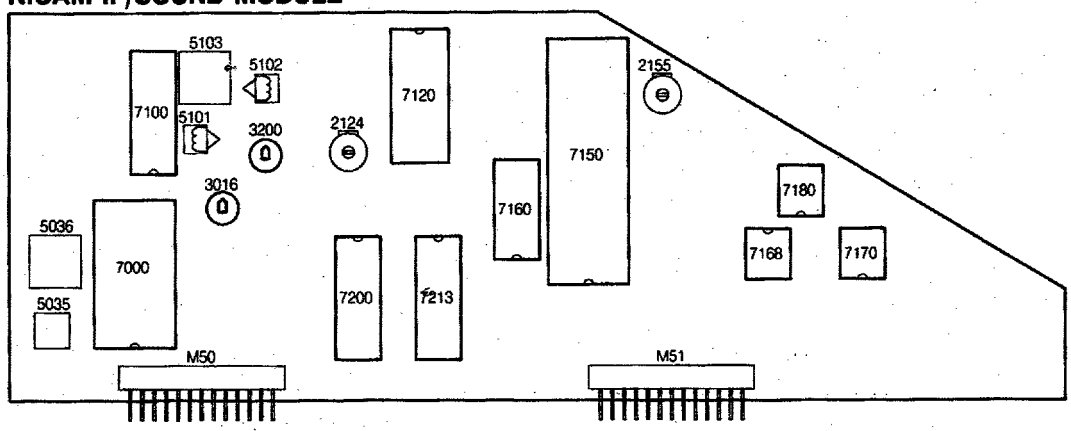
| SYSTEM | L5035/L5036 | L5037/L5038 |
|---|---|---|
| Multi French (BGLI) mono/stereo | SECAM L' | SECAM BG/PAL BG |
| Europe (BG) stereo | PAL BG | -- |
| Europe (BG) mono | -- | PAL BG |
| Multi Eastern- Europe (BGDK) stereo | SECAM K | -- |
| Multi Eastern- Europe (BGDK) mono | -- | SECAM K |
| UK mono | -- | PAL I |
| UK stereo | PAL I | -- |

**2.4** **RF-AGC**
If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

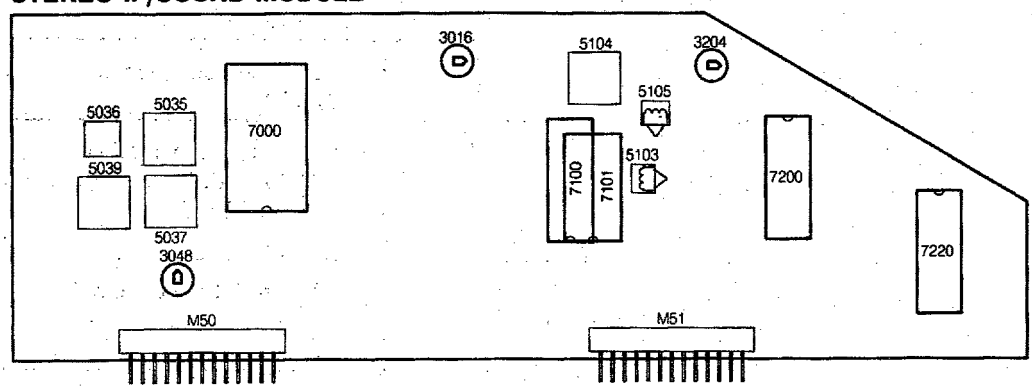
**2.5** **MF-AGC** (Multi French (BGLI) system sets).
Connect a pattern generator and select a SECAM-L colour bar signal with a frequency of 475.25 MHz.
Connect an oscilloscope to pin 3 of connector G 29.
Using 3048 adjust the amplitude of the video signal to 1.8 Vpp.

**2.6** **Stereo matrix** (stereo and NICAM units)
Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.
Set 3204 (stereo units) or 3200 (NICAM PAL BG units) to minimum sound reproduction.

## NICAM IF/SOUND MODULE




## STEREO IF/SOUND MODULE




## MONO IF/SOUND MODULE

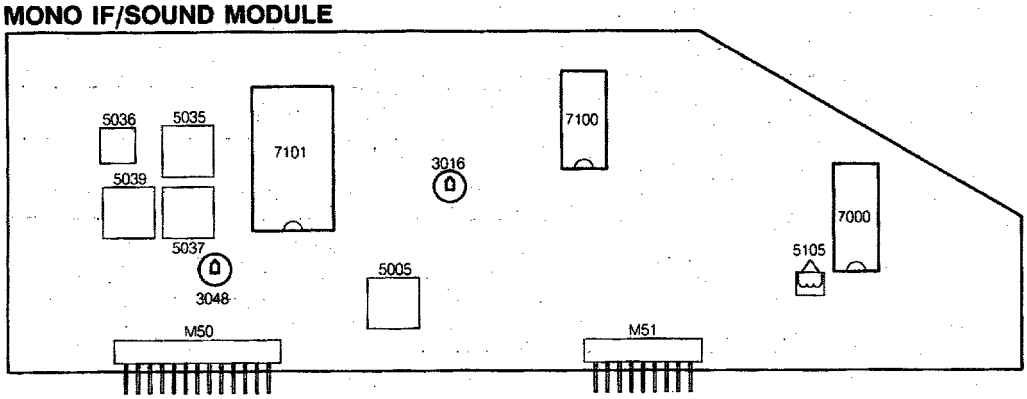



Fig. 7.3

## PIP MODULE

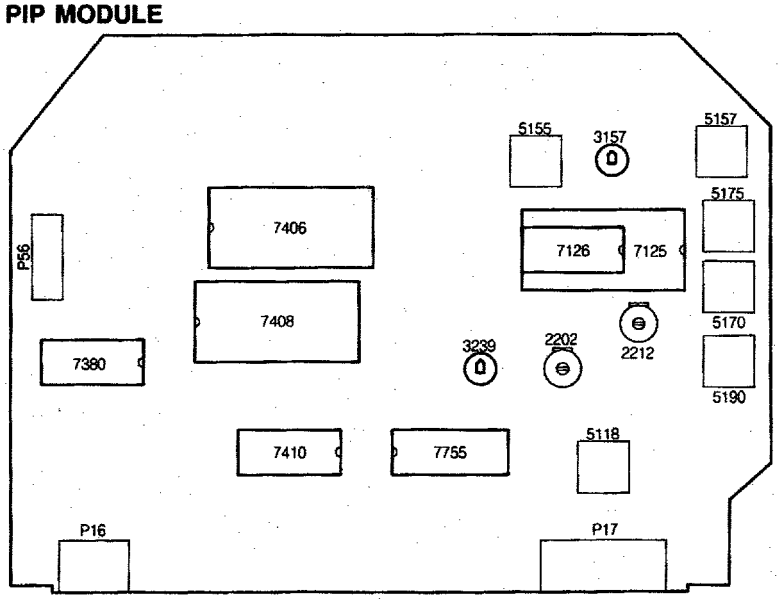



Fig. 7.4

## 3. Adjustments on the PIP module (Fig. 7.4)

**Adjustment conditions**
Before making each adjustment, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

**3.1 Horizontal synchronization**
Do not supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz ± 25 Hz.
Remove the interconnection.

**3.2 Chroma bandpass filter**

**a. Adjustment for PIP modules with TDA4554**
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitude.
Remove the interconnection.

**b. Adjustment for PIP modules with TDA4510**
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set 5118 to maximum amplitude.

**3.3 PAL chroma auxiliary oscillator**
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth.
Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

**3.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554**
Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

**3.5 Delay line**
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

**3.6 SECAM identification for PIP modules with TDA4554**
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Set 5190 to minimum DC level.
Remove the interconnection.

**3.7 SECAM demodulators for PIP modules with TDA4554**
Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set 5170, but now measure at pin 3-IC7125.
Remove the interconnection.

## 4. Adjustments on the picture tube module

**4.1 Picture width**
Set using potentiometer 3525.

**4.2 East/West correction**
Set using potentiometer 3521. This setting is only for 25" and 28" units.

# Repair tips

## 1. Servicing of SMDs (Surface Mounted Devices)

### 1.1 General cautions on handling and storage

a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.

b. Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.

c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

### 1.2 Removal of SMDs

a. Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:

b. While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).

c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

**Caution on removal:**

a. When handling the soldering iron, use suitable pressure and be careful.

b. When removing the chip, do not use undue force with the pair of tweezers.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. The chip, once removed, must **never** be reused.

### 1.3 Attachment of SMDs

a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).

b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

**Caution when attaching SMDs:**

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.

b. Keep the SMD's body in contact with the printed board when soldering.

c. The soldering iron to be used (approx. 30 W ) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. Soldering should not be done outside the solder land.

e. Soldering flux (of rosin) may be used, but should not be acidic.

f. After soldering, let the SMD cool down gradually at room temperature.

g. The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

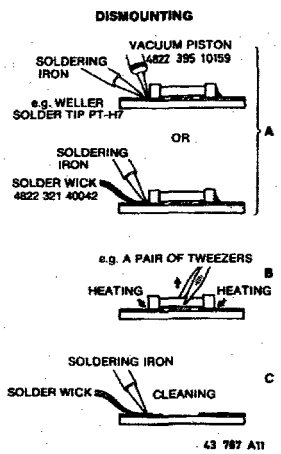



Fig. 8.1

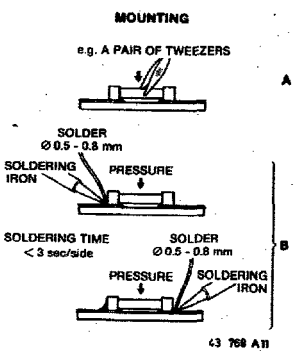



Fig. 8.2

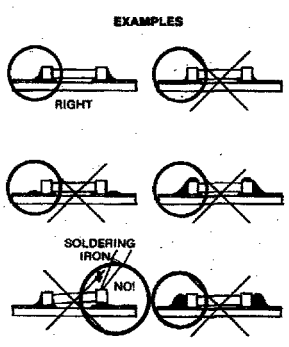



Fig. 8.3

## 2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings.
However, all these values should be checked and adjusted, if necessary.
All options should also be set, the programs installed and personal preference set.

## 3. Table of error messages

| Error indication | Description | Possible fault |
|---|---|---|
| OSD: ERR PIP | $I^2C$ fault PIP module | • +5 on PIP module<br>• IC7406 |
| OSD: ERR TXT | $I^2C$ fault TXT module | • +5 on teletext module<br>• IC7800 |
| OSD: ERR NICAM | $I^2C$ fault IC7160 (NICAM units) | • +5 on IF/sound module<br>• IC7160, C2160, C2161, C2221, C2222<br>• IC7213 |
| OSD: ERR 8415 | $I^2C$ fault IC7200 (stereo and NICAM units) | • +14 on IF/Sound module<br>• IC7200<br>• IC7220 |
| OSD: ERR 8425 | $I^2C$ fault IC7213 (NICAM units)<br>$I^2C$ fault IC7220 (Stereo units) | • IC7213/IC7220 |
| OSD: ERR EEPROM | $I^2C$ fault IC7710 | • IC7710 |
| OSD: ERR TUNER | $I^2C$ fault tuner | • Tuner<br>• TS7003 |
| OSD: ERR CHROMA | $I^2C$ fault IC7309 | • supply IC7309 (+9)<br>• IC7309 |
| Flashing LED | Internal fault in $\mu P$ | • IC7708 |
| OSD: ERR BUS | $I^2C$ bus blocked | • C2714, C2715 |

# Directions for use

## 1. Service-Default-Mode

The GR2.2 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

### 1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- The set should be tuned to 475.25 MHz
- system:
- * PAL BG, PAL/SECAM BG or PAL I for single system units (option 2 MULTI SYSTEM "OFF")
  * SECAM L for multisystem units. (option 2 MULT SYSTEM "ON")
  * SECAM DK for sets for Eastern-Europa with option 2 MULTI SYSTEM "ON".
  * PAL BG for sets for Eastern-Europa with option 2 MULTI SYSTEM "OFF".

### 1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "SER" appears on the screen. The service default mode can only be switched off by switching the unit to standby (⏻). If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

### 1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
  When operating the **install** key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
  The service menu is activated by first pressing the ◿ - key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control.The values and options set are immediately stored in the EEPROM.

Note 1:
If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.
If the autostore function only does not react, the hotel mode is activated.

Note 2:
If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, option 2 "MULTI SYSTEM" may be temporarily disabled "OFF".

Note 3:
If a multi-system set for Eastern-Europe in the service default mode is nevertheless to be used with the PAL BG system, option 2 "MULTI SYSTEM" may be temporarily disabled ("OFF").

## 2. Hotel mode

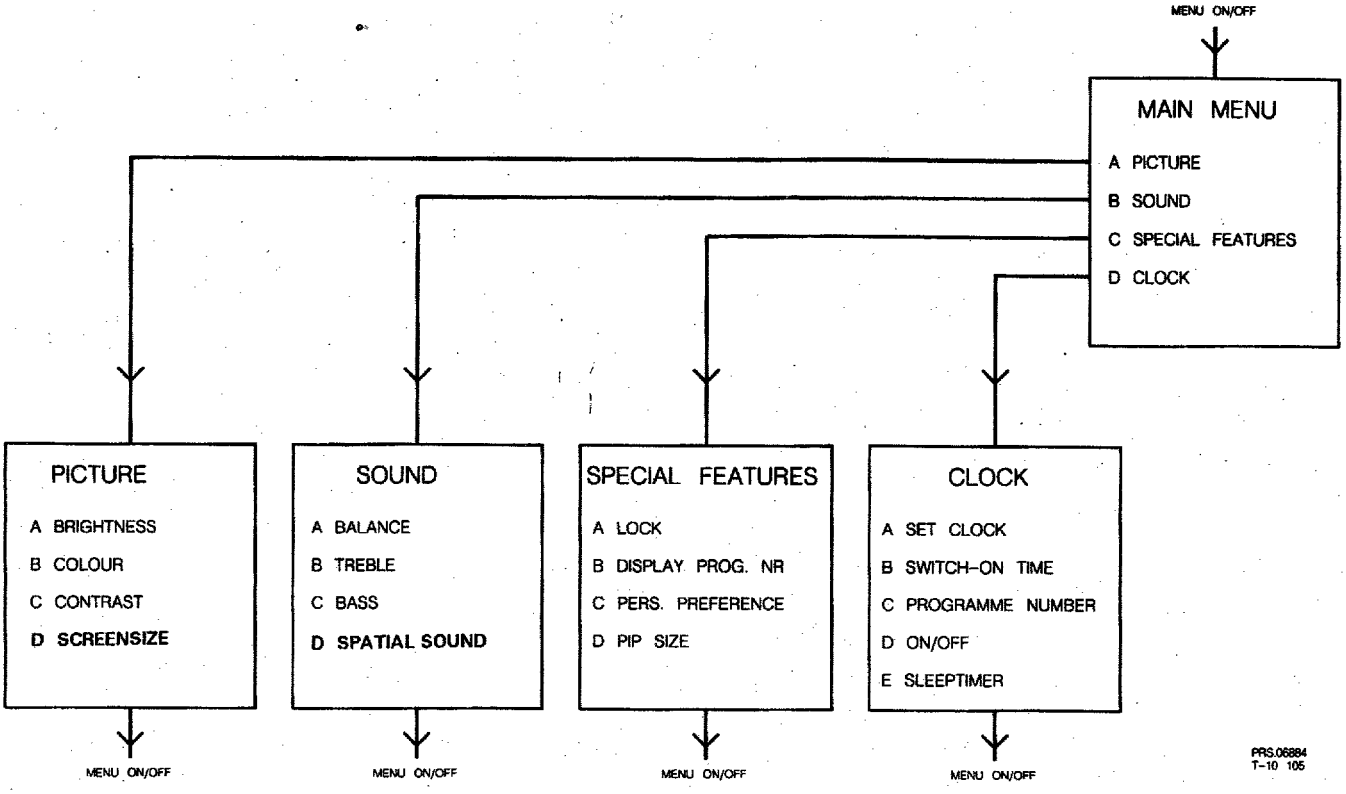
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

### 2.1 Switching the hotel mode on and off

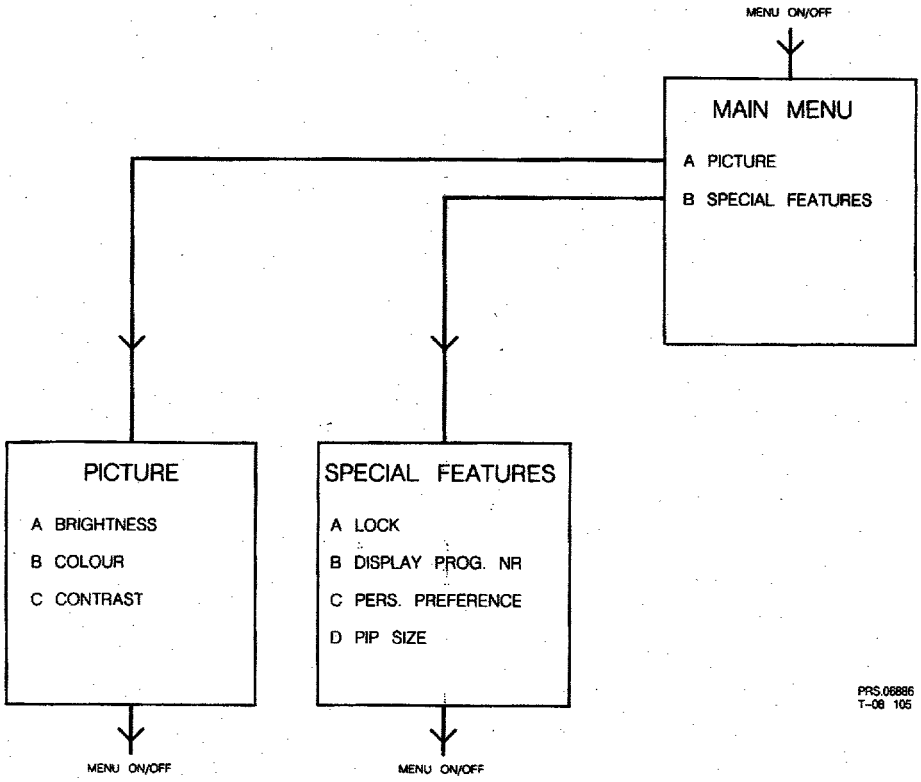
Select programme number 38.
First press ◿ + and keep this depressed while pressing P -.

# Survey of menus

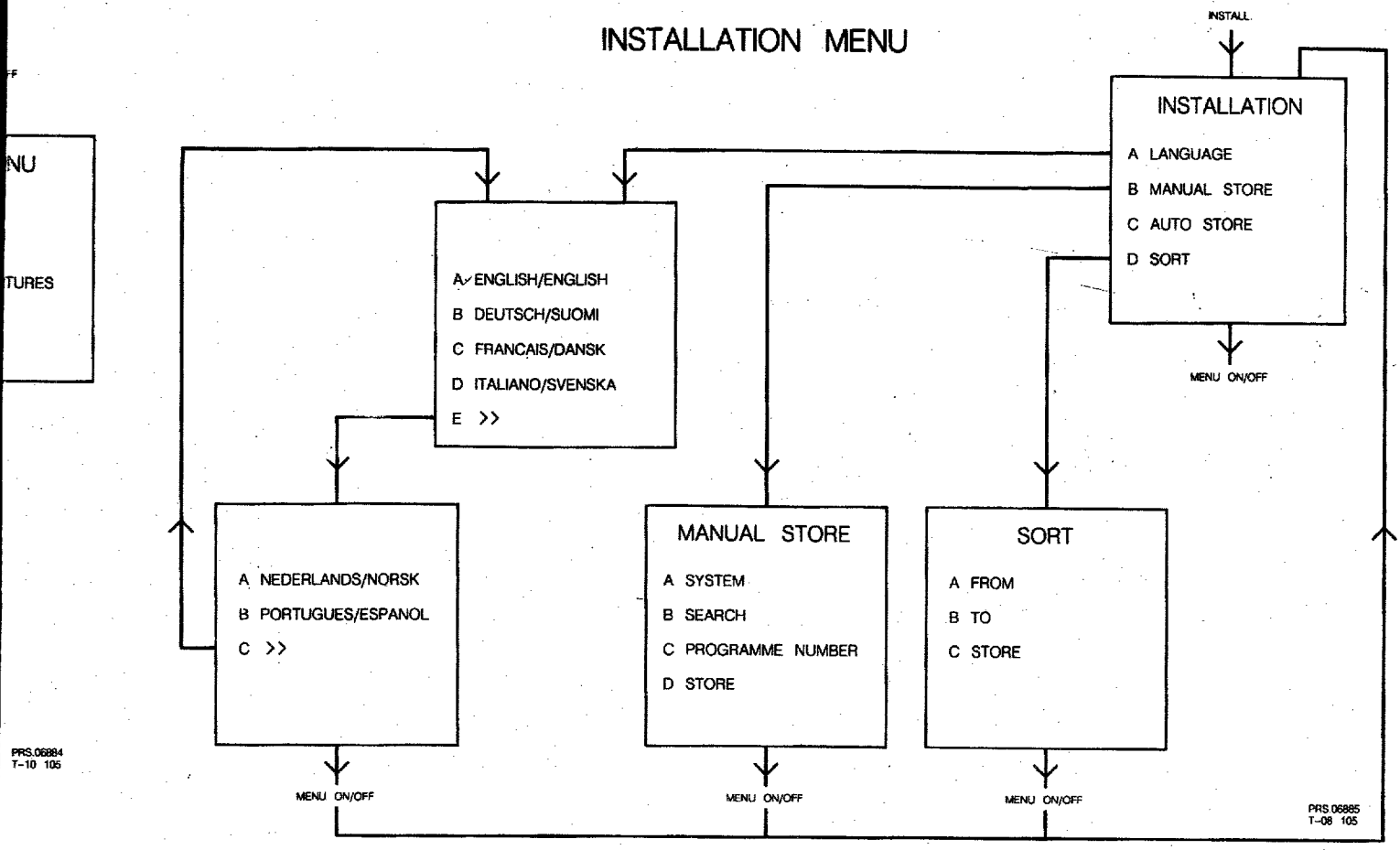
## MAIN MENU STEREO




## MAIN MENU MONO

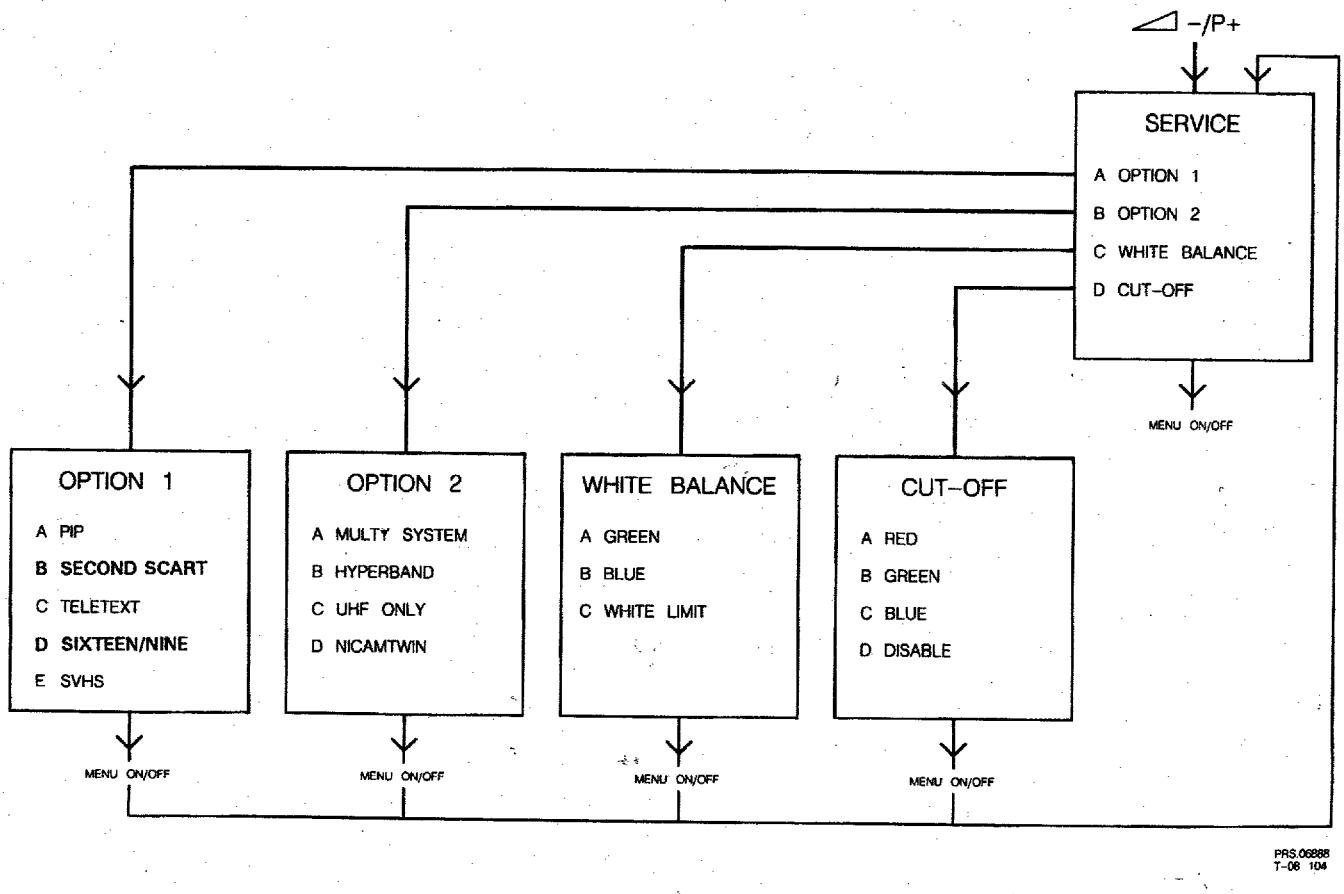


## INSTALLATION MENU




PRS.06884
T-10 105

## SERVICE MENU



## Main Carrier

### Mechanical parts

| | | |
|---|---|---|
| | 4822 492 70871 | spring wire |
| | 4822 404 31174 | bracket EURO module |
| ▲ | 4822 256 91766 | Spring fix. |
| 0103 | 4822 466 93111 | insulator |
| 0170 | 4822 466 30395 | shield for µP |
| 0010 | 4822 265 30389 | 2p male |
| 0011 | 4822 265 30389 | 2p male |
| 0012 | 4822 265 30351 | 5p male |
| 0013 | 4822 265 30378 | 4p male |
| 0014 | 4822 290 40295 | 7p male |
| 0015 | 4822 265 40421 | 6p male |
| 0016 | 4822 264 40207 | 3p male |
| 0017 | 4822 267 50591 | 6p male |
| 0018 | 4822 264 50148 | 8p male |
| 0019 | 4822 264 40239 | 3p male |
| 0022 | 4822 267 40666 | 3p male |
| 0023 | 4822 264 40207 | 3p male |
| 0024 | 4822 264 40207 | 3p male |
| 0027 | 4822 265 30351 | 5p male |
| 0028▲ | 4822 265 30877 | 3p |
| 0029 | 4822 265 41086 | 9p male |
| 0032 | 4822 290 40283 | 5p male |
| 0035 | 4822 267 20387 | SVHS-connector |
| 0039 | 4822 267 31014 | bushing |
| 0040 | 4822 267 40878 | 3p male |
| 0041 | 4822 276 50354 | switch |
| 0042▲ | 4822 256 30274 | Fuse holder |
| 0047 | 4822 267 30631 | cinch fem. 2p |
| 0049 | 4822 267 60243 | euro connector |
| | 4822 267 30546 | 6p female |
| | 4822 267 50637 | 10p female |

### Various

| | | |
|---|---|---|
| 1000 | 4822 210 10436 | U944C/IEC |
| 1000 | 4822 210 50124 | UV916E/IEC |
| 1002 | 4822 526 10405 | ferrite bead |
| 1003 | 4822 212 23667 | infra red receiver |
| 1004 | 4822 526 10405 | ferrite bead |
| 1240 | 4822 071 51602 | fuse T1.6A |
| 1242 | 4822 071 51602 | fuse T1.6A |
| 1300 | 4822 242 70304 | 8,867MHz |
| 1534 | 4822 071 53151 | fuse T315mA |
| 1559 | 4822 071 51002 | fuse T1A |
| 1580 | 4822 071 51602 | fuse T1.6A |
| 1600 | 4822 070 32002 | fuse T2A |
| 1601 | 4822 071 52502 | fuse T2.5A |
| 1702 | 4822 242 70392 | 6MHz |

### ⊣⊢

| | | |
|---|---|---|
| 2001 | 4822 124 40849 | 330µF 20% 16V |
| 2002 | 4822 122 31797 | 22nF 10% 63V |
| 2003 | 4822 122 31947 | 100nF 20% 63V |
| 2008 | 4822 122 31765 | 100pF 5% 50V |
| 2010 | 4822 124 40435 | 10µF 20% 50V |
| 2231 | 4822 124 41525 | 100µF 20% 25V |
| 2232 | 4822 122 32863 | 22nF 80% 50V |
| 2233 | 4822 122 32863 | 22nF 80% 50V |
| 2234 | 4822 122 32863 | 22nF 80% 50V |
| 2235 | 4822 122 32863 | 22nF 80% 50V |
| 2236 | 4822 122 31784 | 4,7nF 10% 50V |
| 2237 | 4822 122 31947 | 100nF 20% 63V |
| 2238 | 4822 122 31784 | 4,7nF 10% 50V |
| 2238[1b] | 4822 122 32597 | 6,8nF 10% 63V |
| 2239 | 4822 122 31947 | 100nF 20% 63V |
| 2240 | 4822 124 40214 | 1000µF 20% 25V |
| 2241 | 4822 122 31947 | 100nF 20% 63V |
| 2242 | 4822 124 40214 | 1000µF 20% 25V |
| 2243 | 4822 122 32863 | 22nF 80% 50V |
| 2245 | 4822 122 32863 | 22nF 80% 50V |
| 2246[1b] | 4822 124 40849 | 330µF 20% 16V |
| 2246 | 4822 124 41596 | 22µF 20% 50V |
| 2248 | 4822 124 40849 | 330µF 20% 16V |
| 2249 | 4822 122 32863 | 22nF 80% 50V |
| 2250 | 4822 121 41857 | 10nF 5% 250V |
| 2251 | 4822 121 41857 | 10nF 5% 250V |
| 2252 | 4822 121 51252 | 470nF 5% 63V |
| 2254 | 4822 121 51252 | 470nF 5% 63V |
| 2255 | 4822 121 51252 | 470nF 5% 63V |
| 2256 | 4822 122 32142 | 270pF 5% 63V |
| 2257 | 4822 122 32142 | 270pF 5% 63V |
| 2262 | 4822 122 32142 | 270pF 5% 63V |
| 2263 | 4822 122 32142 | 270pF 5% 63V |
| 2264 | 4822 121 51252 | 470nF 5% 63V |
| 2265 | 4822 121 51252 | 470nF 5% 63V |
| 2266 | 4822 124 41796 | 22µF 20% 16V |
| 2300 | 4822 122 32482 | 22pF 5% 63V |
| 2301 | 4822 122 31773 | 560pF 5% 50V |
| 2303 | 4822 122 32142 | 270pF 5% 63V |
| 2304[7] | 4822 122 31773 | 560pF 5% 50V |
| 2304 | 4822 122 32999 | 2,2nF 5% |
| 2305 | 4822 126 10324 | 33pF 63V |
| 2306 | 4822 122 31965 | 220pF 5% 63V |
| 2307 | 4822 122 31965 | 220pF 5% 63V |
| 2308 | 4822 122 32442 | 10nF 50V |
| 2309 | 4822 122 32442 | 10nF 50V |
| 2310 | 4822 122 32442 | 10nF 50V |
| 2311 | 4822 122 33496 | 100nF 10% 63V |
| 2312 | 4822 122 32442 | 10nF 50V |
| 2313 | 4822 125 50045 | 20pF |
| 2314 | 5322 121 42661 | 330nF 5% 63V |
| 2315[2,4] | 4822 122 32139 | 12pF 5% 63V |
| 2315[1,3] | 4822 122 32504 | 15pF 5% 50V |
| 2316 | 4822 122 31825 | 27pF 10% 50V |
| 2317 | 4822 122 33466 | 82pF 2% |
| 2318 | 4822 122 32875 | 100pF 5% 50V |
| 2319 | 4822 122 31825 | 27pF 10% 50V |
| 2320[2,4] | 4822 122 31772 | 47pF 5% 50V |
| 2320[1,3] | 4822 122 31839 | 82pF 10% 50V |
| 2321 | 4822 122 31797 | 22nF 10% 63V |
| 2322 | 4822 122 31797 | 22nF 10% 63V |
| 2323 | 4822 122 32542 | 47nF 10% 63V |
| 2325 | 4822 122 32542 | 47nF 10% 63V |
| 2326[7,8] | 4822 051 10008 | jumper |
| 2326 | 4822 122 33496 | 100nF 10% 63V |
| 2328[1,3] | 4822 121 41856 | 22nF 5% 250V |
| 2328[2,4] | 4822 121 42408 | 220nF 5% 63V |
| 2329[1,3] | 4822 121 41856 | 22nF 5% 250V |
| 2329[2,4] | 4822 121 42408 | 220nF 5% 63V |
| 2330 | 4822 122 31765 | 100pF 5% 50V |
| 2331 | 4822 122 31765 | 100pF 5% 50V |
| 2332 | 5322 122 31842 | 330pF 5% 63V |
| 2333 | 4822 121 42408 | 220nF 5% 63V |
| 2334 | 4822 122 31965 | 220pF 5% 63V |
| 2335 | 4822 122 31965 | 220pF 5% 63V |
| 2336 | 4822 122 31797 | 22nF 10% 63V |
| 2337 | 4822 122 31797 | 22nF 10% 63V |
| 2338 | 4822 122 31797 | 22nF 10% 63V |
| 2339 | 4822 122 33496 | 100nF 10% 63V |
| 2340 | 4822 122 31797 | 22nF 10% 63V |
| 2341 | 4822 122 31797 | 22nF 10% 63V |
| 2342 | 4822 122 33496 | 100nF 10% 63V |
| 2343 | 4822 122 33496 | 100nF 10% 63V |
| 2344 | 4822 122 33496 | 100nF 10% 63V |
| 2345 | 4822 122 31797 | 22nF 10% 63V |
| 2346 | 4822 122 31765 | 100pF 5% 50V |
| 2347 | 4822 122 31769 | 18pF 5% 50V |
| 2349 | 5322 122 31647 | 1nF 10% 63V |
| 2350 | 4822 122 31797 | 22nF 10% 63V |
| 2351 | 4822 122 31797 | 22nF 10% 63V |
| 2352 | 5322 122 31647 | 1nF 10% 63V |
| 2353 | 4822 122 33496 | 100nF 10% 63V |
| 2354 | 4822 124 40242 | 1µF 20% 63V |
| 2355 | 4822 124 40849 | 330µF 20% 16V |
| 2356 | 4822 122 31797 | 22nF 10% 63V |
| 2357 | 4822 122 31797 | 22nF 10% 63V |
| 2358 | 4822 122 31797 | 22nF 10% 63V |
| 2359 | 4822 122 31765 | 100pF 5% 50V |
| 2360 | 4822 122 33496 | 100nF 10% 63V |
| 2361 | 4822 122 33496 | 100nF 10% 63V |
| 2362 | 4822 122 33496 | 100nF 10% 63V |
| 2363 | 4822 122 31972 | 39pF 5% 50V |
| 2365 | 5322 121 42661 | 330nF 5% 63V |
| 2366 | 4822 124 41566 | 3,3µF 20% 50V |
| 2367 | 4822 124 41578 | 6,8µF 20% 50V |
| 2368 | 4822 122 32139 | 12pF 5% 63V |
| 2370 | 4822 121 42408 | 220nF 5% 63V |
| 2371 | 4822 122 31825 | 27pF 10% 50V |
| 2372 | 4822 122 31825 | 27pF 10% 50V |
| 2373 | 4822 122 31825 | 27pF 10% 50V |
| 2374 | 4822 122 31772 | 47pF 5% 50V |
| 2375 | 4822 122 31765 | 100pF 5% 50V |
| 2376 | 4822 122 31765 | 100pF 5% 50V |
| 2380 | 4822 122 31766 | 120pF 5% 50V |
| 2381 | 4822 122 31766 | 120pF 5% 50V |
| 2384 | 4822 122 31772 | 47pF 5% 50V |
| 2385 | 4822 122 31765 | 100pF 5% 50V |
| 2386 | 4822 122 33481 | 1,8nF 15% |
| 2450 | 4822 124 80059 | 100µF 20% 25V |
| 2451 | 4822 122 33496 | 100nF 10% 63V |
| 2455 | 5322 122 31647 | 1nF 10% 63V |
| 2455[2] | 5322 122 33446 | 3,3nF 10% 63V |
| 2456 | 4822 124 80059 | 100µF 20% 25V |
| 2457 | 4822 122 33496 | 100nF 10% 63V |
| 2458 | 4822 121 42937 | 2.7nF 1% 250V |
| 2459 | 4822 122 33496 | 100nF 10% 63V |
| 2460[1] | 4822 122 31644 | 2,2nF 10% 63V |
| 2460 | 4822 122 32442 | 10nF 50V |
| 2461 | 5322 122 31647 | 1nF 10% 63V |
| 2462 | 4822 122 31797 | 22nF 10% 63V |
| 2464 | 4822 122 33496 | 100nF 10% 63V |
| 2465 | 4822 124 40849 | 330µF 20% 16V |
| 2466 | 4822 124 22403 | 10µF 20% 16V |
| 2467 | 4822 122 33496 | 100nF 10% 63V |
| 2468 | 4822 124 40244 | 2,2µF 20% 63V |
| 2469 | 4822 124 41596 | 22µF 20% 50V |
| 2470 | 4822 122 31772 | 47pF 5% 50V |
| 2471 | 5322 121 42661 | 330nF 5% 63V |
| 2473 | 5322 121 42661 | 330nF 5% 63V |
| 2475 | 4822 122 33496 | 100nF 10% 63V |
| 2500[3] | 4822 122 31727 | 470pF 5% 63V |
| 2500[4] | 4822 122 31771 | 390pF 5% 50V |
| 2500[1,2] | 4822 122 31965 | 220pF 5% 63V |
| 2501 | 4822 122 33481 | 1,8nF 15% |
| 2502 | 5322 124 41381 | 22µF 20% 50V |
| 2505 | 4822 122 32542 | 47nF 10% 63V |
| 2506[3] | 4822 124 80062 | 470µF 20% 35V |
| 2506[4] | 4822 124 80063 | 680µF 20% 35V |
| 2506[1,2] | 4822 124 80065 | 1000µF 20% 50V |
| 2507 | 4822 122 31797 | 22nF 10% 63V |
| 2509 | 5322 124 41379 | 2,2µF 20% 50V |
| 2524 | 4822 124 42167 | 4,7µF 20% 50V |
| 2538 | 4822 121 43856 | 4.7nF 5% 250V |
| 2539 | 4822 124 80057 | 330µF 20% 16V |

## Main carrier

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|---|---|---|---|
| 2545▲[1,2] | 4822 126 10202 | 1,5nF 10% 2KV |
| 2545▲[3,4] | 4822 126 11539 | 1,2nF 10% 2KV |
| 2546▲[1] | 4822 121 43061 | 8,2nF 5% 1,6KV |
| 2546▲[2] | 4822 121 43076 | 11nF 5% 1600V |
| 2546▲[3] | 4822 121 70109 | 7,5nF 5% 1,6KV |
| 2546▲[4] | 5322 121 44345 | 15nF 5% 1,6KV |
| 2547▲[1,2] | 4822 121 40488 | 22nF 10% 400V |
| 2547▲[3] | 5322 121 44151 | 33nF 10% 400V |
| 2547▲[4] | 5322 121 44219 | 47nF 10% 400V |
| 2549[1] | 4822 121 42073 | 390nF 10% 400V |
| 2549[2] | 4822 121 42074 | 470nF 10% 400V |
| 2550▲[1,2] | 4822 121 51527 | 390nF 5% 250V |
| 2550▲[3] | 4822 121 51601 | 470nF 10% 200V |
| 2550▲[4] | 5322 121 44128 | 680nF 10% 250V |
| 2551 | 4822 124 80069 | 1µF 20% 160V |
| 2559 | 4822 124 80059 | 100µF 20% 25V |
| 2560▲ | 4822 121 51408 | 33nF 10% 250V |
| 2570 | 4822 124 80071 | 22µF 20% 160V |
| 2574 | 4822 122 10175 | 2,2nF 10% 50V |
| 2580 | 4822 124 80061 | 1000µF 20% 25V |
| 2585[2] | 4822 124 80058 | 68µF 20% 25V |
| 2585[1] | 5322 124 21731 | 10µF 20% 50V |
| 2588[1,2] | 4822 122 31644 | 2,2nF 10% 63V |
| 2588[4] | 5322 122 31647 | 1nF 10% 63V |
| 2590 | 5322 121 42498 | 680nF 5% 63V |
| 2600▲ | 4822 124 41531 | 470nF 10% 250V |
| 2605▲[1,2] | 4822 124 80053 | 220µF 20% 385V |
| 2605▲[3,4] | 4822 124 80134 | 150µF 20% 400V |
| 2607▲ | 4822 121 51469 | 1nF 400V |
| 2611 | 5322 124 41299 | 68µF 20% 25V |
| 2617[3,4] | 4822 121 51252 | 470nF 5% 63V |
| 2617[1,2] | 4822 121 51319 | 1µF 10% 63V |
| 2620 | 5322 121 42465 | 68nF 5% 63V |
| 2625 | 4822 122 40593 | 1nF 10% 1KV |
| 2626 | 4822 122 40594 | 470pF 10% 1KV |
| 2629 | 4822 122 31784 | 4,7nF 10% 50V |
| 2630[3,4] | 4822 124 23418 | 47µF 200V |
| 2630[1,2] | 4822 124 80055 | 100µF 10% 160V |
| 2631[3,4] | 4822 124 23418 | 47µF 200V |
| 2631[1,2] | 4822 124 80055 | 100µF 10% 160V |
| 2632 | 4822 126 11382 | 1nF 10% 1KV |
| 2636 | 4822 122 31644 | 2,2nF 10% 63V |
| 2640 | 4822 124 80061 | 1000µF 20% 25V |
| 2641 | 4822 124 80061 | 1000µF 20% 25V |
| 2646 | 4822 124 80054 | 15µF 20% 50V |
| 2649 | 4822 122 33496 | 100nF 10% 63V |
| 2650 | 4822 122 33496 | 100nF 10% 63V |
| 2652 | 5322 122 32331 | 1nF 10% 100V |
| 2653 | 5322 122 32331 | 1nF 10% 100V |
| 2658 | 5322 122 32838 | 82nF 10% 63V |
| 2660 | 4822 124 80061 | 1000µF 20% 25V |
| 2661 | 4822 124 41506 | 47µF 20% 16V |
| 2662[3,4] | 4822 122 31965 | 220pF 5% 63V |
| 2662[1,2] | 4822 122 32142 | 270pF 5% 63V |
| 2663[3,4] | 4822 122 31765 | 100pF 5% 50V |
| 2663[1,2] | 4822 122 31839 | 82pF 10% 50V |
| 2664 | 5322 124 41379 | 2,2µF 20% 50V |
| 2670 | 4822 122 31766 | 120pF 5% 50V |
| 2671 | 4822 121 42408 | 220nF 5% 63V |
| 2675[3,4] | 4822 124 80064 | 680µF 20% 50V |
| 2675[1,2] | 4822 124 80065 | 1000µF 20% 50V |
| 2676 | 5322 122 32331 | 1nF 10% 100V |
| 2704 | 4822 122 32542 | 47nF 10% 63V |
| 2705 | 4822 122 31766 | 120pF 5% 50V |
| 2706 | 5322 124 41299 | 68µF 20% 25V |
| 2707 | 4822 122 32442 | 10nF 50V |
| 2708 | 4822 122 31766 | 120pF 5% 50V |
| 2709 | 4822 122 32507 | 6,8pF 5% 50V |
| 2710 | 4822 122 32507 | 6,8pF 5% 50V |
| 2711 | 4822 122 31825 | 27pF 10% 50V |
| 2712 | 4822 122 31825 | 27pF 10% 50V |
| 2713 | 4822 124 41525 | 100µF 20% 25V |
| 2714 | 4822 122 31766 | 120pF 5% 50V |
| 2715 | 4822 122 31766 | 120pF 5% 50V |
| 2716 | 4822 122 33496 | 100nF 10% 63V |
| 2717 | 4822 122 31644 | 2,2nF 10% 63V |
| 2718 | 4822 122 33496 | 100nF 10% 63V |
| 2719 | 5322 121 42386 | 100nF 5% 63V |
| 2721 | 4822 122 32442 | 10nF 50V |
| 2722 | 4822 122 31947 | 100nF 20% 63V |
| 2781 | 4822 122 33496 | 100nF 10% 63V |
| 2850 | 4822 124 41506 | 47µF 20% 16V |
| 2851 | 4822 122 31766 | 120pF 5% 50V |
| 2852 | 4822 122 33496 | 100nF 10% 63V |
| 2853 | 4822 122 31784 | 4,7nF 10% 50V |
| 2854 | 4822 122 33496 | 100nF 10% 63V |
| 2875 | 5322 121 42386 | 100nF 5% 63V |

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|---|---|---|
| 3001▲ | 4822 052 10399 | 39Ω 5% 0,33W |
| 3002 | 4822 051 10223 | 22k 2% 0,25W |
| 3003 | 4822 051 20222 | 2k2 5% 0,1W |
| 3010 | 4822 051 10102 | 1k 2% 0,25W |
| 3218 | 4822 116 52228 | 680Ω 5% 0,5W |
| 3219 | 4822 116 52228 | 680Ω 5% 0,5W |
| 3220 | 4822 051 10392 | 3k9 2% 0,25W |
| 3221 | 4822 050 11002 | 1k 1% 0,4W |
| 3222 | 4822 116 52234 | 100k 5% 0,5W |
| 3224 | 4822 116 52256 | 2k2 5% 0,5W |
| 3225 | 4822 051 10272 | 2k7 2% 0,25W |
| 3226 | 4822 051 10333 | 33k 2% 0,25W |
| 3227 | 4822 051 10333 | 33k 2% 0,25W |
| 3228 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3229 | 4822 051 10562 | 5k6 2% 0,25W |
| 3230 | 4822 116 52257 | 22k 5% 0,5W |
| 3231 | 4822 051 10472 | 4k7 2% 0,25W |
| 3232[1b] | 4822 051 10008 | jumper |
| 3232 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3233 | 4822 051 10103 | 10k 2% 0,25W |
| 3234 | 4822 051 10223 | 22k 2% 0,25W |
| 3235 | 4822 051 10223 | 22k 2% 0,25W |
| 3236 | 4822 051 10122 | 1k2 2% 0,25W |
| 3237 | 4822 051 10122 | 1k2 2% 0,25W |
| 3237[1b] | 4822 051 10562 | 5k6 2% 0,25W |
| 3238 | 4822 051 10122 | 1k2 2% 0,25W |
| 3239 | 4822 116 52207 | 1k2 5% 0,5W |
| 3240▲ | 4822 052 10828 | 8Ω2 5% 0,33W |
| 3241▲ | 4822 052 10828 | 8Ω2 5% 0,33W |
| 3242 | 4822 051 10333 | 33k 2% 0,25W |
| 3243 | 4822 051 10333 | 33k 2% 0,25W |
| 3244 | 4822 051 10103 | 10k 2% 0,25W |
| 3245 | 4822 051 10103 | 10k 2% 0,25W |
| 3246 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3247 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3248 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3249 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3249[1b] | 4822 116 52193 | 39Ω 5% 0,5W |
| 3250 | 4822 050 11002 | 1k 1% 0,4W |
| 3251 | 4822 050 11002 | 1k 1% 0,4W |
| 3253 | 4822 116 52211 | 150Ω 5% 0,5W |
| 3254 | 4822 116 52211 | 150Ω 5% 0,5W |
| 3255 | 4822 050 11002 | 1k 1% 0,4W |
| 3256 | 4822 050 11002 | 1k 1% 0,4W |
| 3257 | 4822 051 10334 | 330k 2% 0,25W |
| 3258 | 4822 051 10334 | 330k 2% 0,25W |
| 3259 | 4822 051 10334 | 330k 2% 0,25W |
| 3260 | 4822 051 10334 | 330k 2% 0,25W |
| 3261 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3262 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3263 | 4822 051 10008 | jumper |
| 3263[1b] | 4822 051 10562 | 5k6 2% 0,25W |
| 3264 | 4822 051 10008 | jumper |
| 3264[1b] | 4822 051 10562 | 5k6 2% 0,25W |
| 3265 | 4822 050 21008 | 1Ω 1% 0,6W |
| 3266 | 4822 050 21008 | 1Ω 1% 0,6W |
| 3267 | 4822 051 10103 | 10k 2% 0,25W |
| 3268 | 4822 051 10103 | 10k 2% 0,25W |
| 3300 | 4822 051 10822 | 8k2 2% 0,25W |
| 3301 | 4822 051 10272 | 2k7 2% 0,25W |
| 3302 | 4822 051 20222 | 2k2 5% 0,1W |
| 3303[7,8] | 4822 051 10122 | 1k2 2% 0,25W |
| 3303 | 4822 051 10332 | 3k3 2% 0,25W |
| 3304 | 4822 051 10182 | 1k8 2% 0,25W |
| 3305 | 4822 051 10431 | 430Ω 2% 0,25W |
| 3306 | 4822 051 10103 | 10k 2% 0,25W |
| 3307[2,4] | 4822 051 10681 | 680Ω 2% 0,25W |
| 3307[1,3] | 4822 051 10821 | 820Ω 2% 0,25W |
| 3308 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3309 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3310 | 4822 051 10512 | 5k1 2% 0,25W |
| 3311 | 4822 051 10391 | 390Ω 2% 0,25W |
| 3312 | 4822 101 11186 | 470Ω 30% 0.1W |
| 3313[7,8] | 4822 051 10103 | 10k 2% 0,25W |
| 3313 | 4822 051 10682 | 6k8 2% 0,25W |
| 3314 | 4822 051 10103 | 10k 2% 0,25W |
| 3318 | 4822 051 10472 | 4k7 2% 0,25W |
| 3323 | 4822 116 52272 | 330k 5% 0,5W |
| 3325 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3326 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3327 | 4822 050 11202 | 1k2 1% 0,4W |
| 3328 | 4822 051 10473 | 47k 2% 0,25W |
| 3330 | 4822 051 10109 | 10Ω 2% 0,25W |
| 3331 | 4822 051 10109 | 10Ω 2% 0,25W |
| 3332 | 4822 050 23901 | 390Ω 1% 0,6W |
| 3334 | 4822 050 21809 | 18Ω 1% 0,6W |
| 3335 | 4822 116 52184 | 18Ω 5% 0,5W |
| 3336▲[2,4] | 4822 052 10189 | 18Ω 5% 0,33W |
| 3336▲[1,3] | 4822 052 10279 | 27Ω 5% 0,33W |
| 3337▲[2,4] | 4822 052 10189 | 18Ω 5% 0,33W |
| 3337▲[1,3] | 4822 052 10279 | 27Ω 5% 0,33W |
| 3338 | 4822 050 11002 | 1k 1% 0,4W |
| 3339 | 4822 116 52243 | 1k5 5% 0,5W |
| 3340 | 4822 050 11002 | 1k 1% 0,4W |
| 3341 | 4822 051 10103 | 10k 2% 0,25W |
| 3342[2,4] | 4822 051 10102 | 1k 2% 0,25W |
| 3342[1,3] | 4822 051 10122 | 1k2 2% 0,25W |
| 3343 | 4822 051 10104 | 100k 2% 0,25W |
| 3344 | 4822 051 10103 | 10k 2% 0,25W |
| 3347 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3348 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3349 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3350 | 4822 050 11002 | 1k 1% 0,4W |
| 3351 | 4822 116 52263 | 2k7 5% 0,5W |
| 3352 | 4822 116 52263 | 2k7 5% 0,5W |
| 3353 | 4822 116 52263 | 2k7 5% 0,5W |
| 3354 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3357 | 4822 051 10102 | 1k 2% 0,25W |
| 3358 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3359 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3360 | 4822 051 10102 | 1k 2% 0,25W |
| 3361 | 4822 051 10102 | 1k 2% 0,25W |
| 3362 | 4822 051 10472 | 4k7 2% 0,25W |
| 3365 | 4822 116 52272 | 330k 5% 0,5W |
| 3366 | 4822 116 52297 | 68k 5% 0,5W |
| 3367 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3368 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3369 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3370 | 4822 051 10472 | 4k7 2% 0,25W |
| 3371 | 4822 051 10332 | 3k3 2% 0,25W |

## Main carrier

| | | |
|---|---|---|
| 3372 | 4822 051 10472 | 4k7 2% 0,25W |
| 3373 | 4822 051 10102 | 1k 2% 0,25W |
| 3374 | 4822 050 22702 | 27k 1% 0,6W |
| 3375 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3376 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3380 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3381 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3394 | 4822 051 10683 | 68k 2% 0,25W |
| 3395 | 4822 051 10683 | 68k 2% 0,25W |
| 3450 | 4822 116 52238 | 12k 5% 0,5W |
| 3451 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3452 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3455 | 4822 051 10102 | 1k 2% 0,25W |
| 3456 | 4822 051 10682 | 6k8 2% 0,25W |
| 3457 | 4822 101 11191 | 10k 30%LIN 0.1W |
| 3458 | 4822 051 10303 | 30k 2% 0,25W |
| 3459 | 4822 051 10823 | 82k 2% 0,25W |
| 3460 | 4822 051 10333 | 33k 2% 0,25W |
| 3461 | 4822 101 11193 | 470k 30% 0.1W |
| 3463 | 4822 116 52251 | 18k 5% 0,5W |
| 3464 | 4822 051 10123 | 12k 2% 0,25W |
| 3465 | 4822 051 10394 | 390k 2% 0,25W |
| 3466 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3467[3,4] | 4822 050 21205 | 1M2 1% 0,6W |
| 3467[1,2] | 4822 116 80692 | 2M2 5% 0,2W |
| 3468 | 4822 051 10682 | 6k8 2% 0,25W |
| 3469 | 4822 051 10229 | 22Ω 2% 0,25W |
| 3470 | 4822 116 52231 | 820Ω 5% 0,5W |
| 3471[1,2] | 4822 116 52239 | 120k 5% 0,5W |
| 3471[4] | 4822 116 52245 | 150k 5% 0,5W |
| 3471[3] | 4822 116 52258 | 220k 5% 0,5W |
| 3473 | 4822 116 52265 | 270k 5% 0,5W |
| 3474 | 4822 051 10392 | 3k9 2% 0,25W |
| 3475 | 4822 051 10184 | 180k 2% 0,25W |
| 3476 | 4822 051 10683 | 68k 2% 0,25W |
| 3477 | 4822 051 10474 | 470k 2% 0,25W |
| 3478 | 4822 051 10393 | 39k 2% 0,25W |
| 3483 | 4822 051 10479 | 47Ω 2% 0,25W |
| 3485 | 4822 051 20222 | 2k2 5% 0,1W |
| 3501[3] | 4822 051 10101 | 100Ω 2% 0,25W |
| 3501[1,2] | 4822 051 10759 | 75Ω 2% 0,25W |
| 3501[4] | 4822 051 10829 | 82Ω 2% 0,25W |
| 3502[1,2] | 4822 053 10122 | 1k2 5% 1W |
| 3502[3,4] | 4822 053 10272 | 2k7 5% 1W |
| 3503▲[1,2] | 4822 052 10128 | 1Ω2 5% 0,33W |
| 3503▲[3,4] | 4822 052 10478 | 4Ω7 5% 0,33W |
| 3504 | 4822 100 11684 | 100Ω 10% 0.1W |
| 3505 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3506 | 4822 116 52242 | 130k 5% 0,5W |
| 3507[1,2] | 4822 116 52233 | 10k 5% 0,5W |
| 3507[3,4] | 4822 116 52238 | 12k 5% 0,5W |
| 3508 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3509 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3510 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3511 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3513 | 4822 050 25601 | 560Ω 1% 0,6W |
| 3514 | 4822 051 10182 | 1k8 2% 0,25W |
| 3515 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3516 | 4822 101 11192 | 22k 30% 0.1W |
| 3517 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3519 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3523 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3529 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3535[3,4] | 4822 051 10151 | 150Ω 2% 0,25W |
| 3535[1] | 4822 051 10221 | 220Ω 2% 0,25W |
| 3535[2] | 4822 051 51201 | 120Ω 1% 0,25W |
| 3539[3,4] | 4822 053 20434 | 430k 5% 0,25W |
| 3539[1,2] | 4822 053 20684 | 680k 5% 0,25W |
| 3540 | 4822 051 51201 | 120Ω 1% 0,25W |
| 3542 | 4822 050 28201 | 820Ω 1% 0,6W |
| 3543 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3545[2] | 4822 111 70178 | 120Ω 5% 5W |
| 3545[1] | 4822 113 80565 | 180Ω 5% 5W |
| 3545[3,4] | 4822 116 83686 | 680Ω 5% 5W |
| 3549 | 4822 116 52251 | 18k 5% 0,5W |
| 3550 | 4822 116 52251 | 18k 5% 0,5W |
| 3551 | 4822 050 25601 | 560Ω 1% 0,6W |
| 3552 | 4822 050 25601 | 560Ω 1% 0,6W |
| 3553▲ | 4822 052 10561 | 560Ω 5% 0,33W |
| 3560[2] | 4822 116 52247 | 16k 5% 0,5W |
| 3560[1] | 4822 116 52254 | 20k 5% 0,5W |
| 3560[4] | 4822 116 52274 | 36k 5% 0,5W |
| 3560[3] | 4822 116 52277 | 39k 5% 0,5W |
| 3570▲ | 4822 052 10688 | 6Ω8 5% 0,33W |
| 3582 | 4822 050 25601 | 560Ω 1% 0,6W |
| 3585▲ | 4822 052 10159 | 15Ω 5% 0,33W |
| 3588▲ | 4822 052 10561 | 560Ω 5% 0,33W |
| 3589 | 4822 050 21502 | 1k5 1% 0,6W |
| 3590 | 4822 116 52234 | 100k 5% 0,5W |
| 3591 | 4822 051 10474 | 470k 2% 0,25W |
| 3592 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3603▲ | 4822 053 21915 | 9M1 5% 0,5W |
| 3604 | 4822 113 80593 | 1,5Ω 10% 5W |
| 3605▲ | 4822 052 10102 | 1k 5% 0,33W |
| 3606▲ | 4822 052 10102 | 1k 5% 0,33W |
| 3610▲[1,2] | 4822 052 10159 | 15Ω 5% 0,33W |
| 3610▲[3,4] | 4822 052 10688 | 6Ω8 5% 0,33W |
| 3617 | 4822 116 52213 | 180Ω 5% 0,5W |
| 3619 | 4822 116 52182 | 15Ω 5% 0,5W |
| 3620 | 4822 053 12121 | 120Ω 5% 3W |
| 3621[1,2] | 4822 053 12279 | 27Ω 5% 3W |
| 3621[3,4] | 4822 053 12479 | 47Ω 5% 3W |
| 3622 | 4822 053 12479 | 47Ω 5% 3W |
| 3624 | 4822 053 10334 | 330k 5% 1W |
| 3625 | 4822 116 52292 | 560k 5% 0,5W |
| 3626 | 4822 113 80565 | 180Ω 5% 5W |
| 3628 | 4822 051 10334 | 330k 2% 0,25W |
| 3629 | 4822 051 10682 | 6k8 2% 0,25W |
| 3631[3,4] | 4822 050 21204 | 120k 1% 0,6W |
| 3631[1,2] | 4822 050 22204 | 220k 1% 0,6W |
| 3634[3,4] | 4822 116 52263 | 2k7 5% 0,5W |
| 3634[1,2] | 4822 116 52269 | 3k3 5% 0,5W |
| 3635 | 4822 101 11187 | 1k 30%LIN 0,1W |
| 3636 | 4822 051 10224 | 220k 2% 0,25W |
| 3637 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3647[1b] | 4822 050 23303 | 33k 1% 0,6W |
| 3647 | 4822 050 23603 | 36k 1% 0,6W |
| 3648 | 4822 051 10273 | 27k 2% 0,25W |
| 3649 | 4822 050 23309 | 33Ω 1% 0,6W |
| 3658▲ | 4822 052 10688 | 6Ω8 5% 0,33W |
| 3659 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3660 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3661 | 4822 051 10361 | 360Ω 2% 0,25W |
| 3662 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3663 | 4822 051 10562 | 5k6 2% 0,25W |
| 3664 | 4822 051 10272 | 2k7 2% 0,25W |
| 3665 | 4822 051 10103 | 10k 2% 0,25W |
| 3666 | 4822 051 10102 | 1k 2% 0,25W |
| 3667 | 4822 051 10361 | 360Ω 2% 0,25W |
| 3668 | 4822 051 10102 | 1k 2% 0,25W |
| 3669 | 4822 051 10102 | 1k 2% 0,25W |
| 3670 | 4822 051 10303 | 30k 2% 0,25W |
| 3671 | 4822 050 11002 | 1k 1% 0,4W |
| 3672 | 4822 051 10103 | 10k 2% 0,25W |
| 3673 | 4822 051 10472 | 4k7 2% 0,25W |
| 3674 | 4822 051 10102 | 1k 2% 0,25W |
| 3675[1,2] | 4822 116 52239 | 120k 5% 0,5W |
| 3675[3,4] | 4822 116 52284 | 47k 5% 0,5W |
| 3676 | 4822 051 10103 | 10k 2% 0,25W |
| 3677 | 4822 051 10118 | 1Ω1 5% 0,25W |
| 3701 | 4822 051 10273 | 27k 2% 0,25W |
| 3702 | 4822 051 10153 | 15k 2% 0,25W |
| 3707 | 4822 051 10182 | 1k8 2% 0,25W |
| 3718 | 4822 116 52215 | 220Ω 5% 0,5W |
| 3719 | 4822 116 52215 | 220Ω 5% 0,5W |
| 3720 | 4822 116 52215 | 220Ω 5% 0,5W |
| 3721 | 4822 051 10103 | 10k 2% 0,25W |
| 3722 | 4822 051 10103 | 10k 2% 0,25W |
| 3723 | 4822 051 10103 | 10k 2% 0,25W |
| 3724 | 4822 051 10103 | 10k 2% 0,25W |
| 3725 | 4822 051 10103 | 10k 2% 0,25W |
| 3726 | 4822 051 10103 | 10k 2% 0,25W |
| 3727 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3728 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3729 | 4822 051 10911 | 910Ω 2% 0,25W |
| 3730 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3732[1,2] | 4822 053 11103 | 10k 5% 2W |
| 3732[3,4] | 4822 053 11332 | 3k3 5% 2W |
| 3733[3,4] | 4822 050 23902 | 3k9 1% 0,6W |
| 3733[1,2] | 4822 116 52283 | 4k7 5% 0,5W |
| 3734[3,4] | 4822 050 23902 | 3k9 1% 0,6W |
| 3734[1,2] | 4822 116 52283 | 4k7 5% 0,5W |
| 3736 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3737 | 4822 050 11002 | 1k 1% 0,4W |
| 3741 | 4822 051 10123 | 12k 2% 0,25W |
| 3742 | 4822 051 10332 | 3k3 2% 0,25W |
| 3743 | 4822 051 10472 | 4k7 2% 0,25W |
| 3747 | 4822 051 10273 | 27k 2% 0,25W |
| 3748 | 4822 051 10273 | 27k 2% 0,25W |
| 3749 | 4822 051 10273 | 27k 2% 0,25W |
| 3750 | 4822 051 10273 | 27k 2% 0,25W |
| 3751 | 4822 051 10153 | 15k 2% 0,25W |
| 3752 | 4822 116 52244 | 15k 5% 0,5W |
| 3753 | 4822 051 10153 | 15k 2% 0,25W |
| 3754 | 4822 051 10153 | 15k 2% 0,25W |
| 3755[1b] | 4822 051 10008 | jumper |
| 3755 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3756 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3757 | 4822 051 20222 | 2k2 5% 0,1W |
| 3758 | 4822 051 10392 | 3k9 2% 0,25W |
| 3759 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3768 | 4822 051 10105 | 1M 5% 0,25W |
| 3770 | 4822 051 10473 | 47k 2% 0,25W |
| 3771 | 4822 116 52251 | 18k 5% 0,5W |
| 3772 | 4822 116 52276 | 3k9 5% 0,5W |
| 3775 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3776 | 4822 051 10562 | 5k6 2% 0,25W |
| 3777 | 4822 116 52264 | 27k 5% 0,5W |
| 3778 | 4822 116 52291 | 56k 5% 0,5W |
| 3779 | 4822 116 52233 | 10k 5% 0,5W |
| 3780 | 4822 051 10103 | 10k 2% 0,25W |
| 3781 | 4822 051 10472 | 4k7 2% 0,25W |
| 3849 | 4822 116 52218 | 300Ω 5% 0,5W |
| 3850 | 4822 116 52189 | 30Ω 5% 0,5W |
| 3851 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3852 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3853 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3854 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3855 | 4822 116 52201 | 75Ω 5% 0,5W |
| 3856 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3857 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3858 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3859 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3860 | 4822 116 80176 | 1Ω 5% 0,5W |
| 3861 | 4822 051 10562 | 5k6 2% 0,25W |
| 3866 | 4822 051 10472 | 4k7 2% 0,25W |
| 3867 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3868 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3869 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3870 | 4822 051 10103 | 10k 2% 0,25W |

# Spare parts list / Stückliste / Liste

## Main carrier

| | | |
|---|---|---|
| 3871 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3872 | 4822 051 10102 | 1k 2% 0,25W |
| 3874 | 4822 050 21008 | 1Ω 1% 0,6W |
| 3875 | 4822 051 10154 | 150k 2% 0,25W |
| 3879 | 4822 051 10122 | 1k2 2% 0,25W |
| 3880 | 4822 051 10332 | 3k3 2% 0,25W |
| 3881 | 4822 116 52217 | 270Ω 5% 0,5W |
| 3882 | 4822 116 52217 | 270Ω 5% 0,5W |
| 3884 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3885 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3886 | 4822 051 10472 | 4k7 2% 0,25W |
| 3887 | 4822 116 52207 | 1k2 5% 0,5W |
| 3888 | 4822 116 52289 | 5k6 5% 0,5W |
| 3890 | 4822 051 10103 | 10k 2% 0,25W |
| 9723 | 4822 116 52234 | 100K 5% 0,5W |

**Jumper**

| | | |
|---|---|---|
| 4221.. 4318 | 4822 051 10008 | jumper |
| 4319 | 4822 051 10152 | 1k5 2% 0,25W |
| 4320.. 4329 | 4822 051 10008 | jumper |
| 4330 | 4822 051 10102 | 1k 2% 0,25W |
| 4450.. 4867 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5001 | 4822 157 60138 | 47µH |
| 5240 | 4822 158 10551 | 27µH |
| 5242 | 4822 158 10551 | 27µH |
| 5301 | 4822 157 63075 | 7,95µH |
| 5303 | 4822 157 53906 | 47µH |
| 5304 | 4822 157 63074 | 7.6µH 4.3MHz |
| 5306 | 4822 320 40081 | 470ns |
| 5534▲[3,4] | 4822 157 62771 | coil |
| 5534▲[1,2] | 4822 158 10728 | coil |
| 5541▲ | 4822 157 63078 | line driver |
| 5545▲[2] | 4822 140 10414 | LOT 25"/28" BL |
| 5545▲[1] | 4822 140 10417 | LOT 25"/28" BM |
| 5545▲[3] | 4822 140 10418 | LOT 21" MN |
| 5545▲[4] | 4822 140 10435 | LOT 21" NN |
| 5549 | 4822 157 53069 | coil balance |
| 5554▲ | 4822 157 63079 | AT4042/97 |
| 5554▲[3] | 4822 157 63161 | AT4042/90G |
| 5582 | 5322 157 52539 | 15µH |
| 5588 | 4822 157 52505 | 33µH |
| 5605▲ | 4822 157 53995 | 100µH |
| 5606▲ | 4822 157 53995 | 100µH |
| 5619[1,2] | 4822 156 21125 | 3,9µH |
| 5619[3,4] | 4822 157 51235 | 4µH 7 10% |
| 5625▲[3,4] | 4822 148 81159 | SOPS trafo |
| 5625▲[1,2] | 4822 148 81168 | SOPS trafo |
| 5630 | 4822 157 60387 | 1µH |
| 5631 | 4822 158 10551 | 27µH |
| 5632 | 4822 158 10551 | 27µH |
| 5661 | 4822 157 52279 | 33µH 10% |
| 5701 | 4822 157 52843 | 56µH 5% |
| 5703 | 4822 157 52279 | 33µH 10% |

| | | |
|---|---|---|
| 6245 | 4822 130 30621 | 1N4148 |
| 6246 | 4822 130 81139 | LLZ-C3V3 |
| 6247 | 4822 130 81139 | LLZ-C3V3 |
| 6248 | 4822 130 80446 | LL4148 |
| 6249 | 4822 130 80446 | LL4148 |
| 6300 | 4822 130 80446 | LL4148 |
| 6302 | 4822 130 34382 | BZX79-C8V2 |
| 6303 | 4822 130 34382 | BZX79-C8V2 |
| 6310 | 4822 130 80884 | LLZ-C5V1 |
| 6315 | 4822 130 80446 | LL4148 |
| 6316 | 4822 130 30621 | 1N4148 |
| 6317 | 4822 130 30621 | 1N4148 |
| 6318 | 4822 051 10008 | jumper |
| 6319 | 4822 130 34379 | BZX79-C27 |
| 6320 | 4822 130 80877 | BAV103 |
| 6367 | 4822 130 80884 | LLZ-C5V1 |
| 6464 | 4822 130 81015 | LLZ-C10 |
| 6465[3,4] | 4822 130 34281 | BZX79-F15 |
| 6465[1] | 4822 130 61219 | BZX79-F10 |
| 6465[2] | 4822 130 80239 | BZX79-F8V2 |
| 6466 | 4822 130 80446 | LL4148 |
| 6467 | 4822 130 80446 | LL4148 |
| 6503 | 4822 130 42488 | BYD33D |
| 6504 | 4822 130 80446 | LL4148 |
| 6546 | 4822 130 41275 | BY228/20 |
| 6547 | 4822 130 41602 | BYW95C/20 |
| 6548 | 4822 130 30621 | 1N4148 |
| 6551 | 4822 130 42489 | BYD33G |
| 6560 | 4822 130 80446 | LL4148 |
| 6561 | 4822 130 30864 | BZX79-C68 |
| 6563 | 4822 130 80915 | BYD74C |
| 6570 | 4822 130 42489 | BYD33G |
| 6571 | 4822 130 42488 | BYD33D |
| 6580 | 4822 130 80791 | BYV28-200/20 |
| 6580[2] | 4822 130 82512 | BYV29F-400 |
| 6585 | 4822 130 42489 | BYD33G |
| 6590 | 4822 130 81141 | LLZ-C43 |
| 6591 | 4822 130 30621 | 1N4148 |
| 6592 | 4822 130 80928 | BZX79-C30 |
| 6610 | 4822 130 80446 | LL4148 |
| 6611 | 5322 130 34413 | BZT03-C16 |
| 6612 | 4822 130 30621 | 1N4148 |
| 6617 | 4822 130 31456 | BZV85-C5V1 |
| 6621 | 4822 130 42488 | BYD33D |
| 6622 | 4822 130 30621 | 1N4148 |
| 6624 | 4822 130 31933 | 1N5061 |
| 6625 | 4822 130 31933 | 1N5061 |
| 6630[1,2] | 4822 130 33531 | BY229F-600 |
| 6630[3,4] | 4822 130 81175 | BYD74G |
| 6640 | 4822 130 80914 | BYD74B |
| 6641 | 4822 130 80914 | BYD74B |
| 6646 | 4822 130 42488 | BYD33D |
| 6648[1,2] | 4822 130 34488 | BZX79-F12 |
| 6648[3,4] | 4822 130 61219 | BZX79-F10 |
| 6649 | 4822 130 30621 | 1N4148 |
| 6660 | 4822 130 30621 | 1N4148 |
| 6661 | 4822 130 42488 | BYD33D |
| 6662 | 4822 130 80905 | LLZ-F5V1 |
| 6663 | 4822 130 34281 | BZX79-F15 |
| 6664[3,4] | 4822 130 30862 | BZX79-F9V1 |
| 6664[1,2] | 4822 130 61219 | BZX79-F10 |
| 6665 | 4822 130 80883 | LLZ-C4V7 |
| 6666[1,2] | 4822 130 80887 | LLZ-C36 |
| 6666[3,4] | 4822 130 81141 | LLZ-C43 |
| 6669 | 4822 130 80446 | LL4148 |
| 6670 | 4822 130 20272 | E0102AA |
| 6675 | 4822 130 80914 | BYD74B |
| 6705 | 4822 130 80905 | LLZ-F5V1 |
| 6707 | 4822 209 72895 | TLUV5320 |
| 6708 | 4822 130 81145 | LLZ-F2V4 |
| 6709 | 4822 130 82037 | HZT33 |

| | | |
|---|---|---|
| 7003 | 4822 130 42133 | BC817 |
| 7240[1b] | 4822 209 73253 | TDA2613/N1 |
| 7240 | 4822 209 73853 | TDA1521/N4 |
| 7243 | 5322 130 42012 | BC858 |
| 7244 | 4822 130 42513 | BC858C |
| 7245 | 5322 130 42136 | BC848C |
| 7246 | 5322 130 42136 | BC848C |
| 7247 | 5322 130 42136 | BC848C |
| 7248 | 4822 130 61207 | BC848 |
| 7249 | 4822 130 61207 | BC848 |
| 7301 | 4822 130 61207 | BC848 |
| 7302 | 5322 130 42012 | BC858 |
| 7303 | 4822 130 61207 | BC848 |
| 7305 | 4822 209 30389 | TDA4510/V8 |
| 7306 | 4822 209 30837 | TDA4650/V4/S1 |
| 7307 | 4822 209 31216 | TDA4661 |
| 7308 | 4822 209 71512 | TDA4565/V6 |
| 7309 | 4822 209 63733 | TDA4680/V5 |
| 7310 | 4822 130 61207 | BC848 |
| 7311 | 5322 209 10576 | 4053B |
| 7312 | 5322 209 10576 | 4053B |
| 7341 | 4822 130 61207 | BC848 |
| 7370 | 4822 130 61207 | BC848 |
| 7371 | 4822 130 61207 | BC848 |
| 7372 | 4822 130 61207 | BC848 |
| 7373 | 4822 130 61207 | BC848 |
| 7374 | 4822 130 61207 | BC848 |
| 7455 | 5322 130 42012 | BC858 |
| 7470 | 4822 209 63423 | TDA2579B/N2 |
| 7471 | 4822 130 61207 | BC848 |
| 7472 | 5322 130 42136 | BC848C |
| 7500 | 4822 130 41344 | BC337-40 |
| 7502 | 4822 130 60775 | 2SD1266P |
| 7503 | 4822 130 61236 | BD234 |
| 7504 | 4822 130 61207 | BC848 |
| 7505 | 5322 130 42012 | BC858 |
| 7540 | 4822 130 41344 | BC337-40 |
| 7545[3,4] | 4822 130 61265 | BU508AF |
| 7546[3] | 4822 130 42679 | BUT11AF/1 |
| 7546[4] | 4822 130 62735 | BUT12AF |
| 7591 | 5322 130 42012 | BC858 |
| 7600 | 4822 209 63735 | TDA8385/N2 |
| 7614▲ | 4822 209 30992 | CNR50 |
| 7625 | 4822 130 62735 | BUT12AF |
| 7661 | 5322 130 44921 | BD943 |
| 7663 | 4822 130 42513 | BC858C |
| 7671 | 4822 130 61207 | BC848 |
| 7672 | 4822 130 61207 | BC848 |
| 7703 | 4822 130 61207 | BC848 |
| 7704 | 4822 130 61207 | BC848 |
| 7705 | 4822 130 61207 | BC848 |
| 7706 | 4822 130 61207 | BC848 |
| 7707 | 4822 130 61207 | BC848 |
| 7708 | 4822 209 31209 | UP GR2STL1-5.2 |
| 7708 | 4822 209 31211 | UP GR2STL2-5.2 |
| 7708 | 4822 209 31212 | UP GR2STL3-1.0 |
| 7708 | 4822 209 31213 | UP GR2M1/2-5.1 |
| 7710 | 4822 209 62098 | ST24C02AB1 |
| 7850 | 4822 130 61207 | BC848 |
| 7885 | 4822 130 61207 | BC848 |
| 7886 | 4822 130 61207 | BC848 |

| | |
|---|---|
| 1) | 25"/28" Black Matrix |
| 1b) | Black Matrix mono |
| 2) | 25"/28" Black Line |
| 3) | 21" Mini Neck |
| 4) | 21" Narrow Neck |
| 7) | system BG |
| 8) | system I |

L1 = English, German, French, Italian, Dutch, Portugues
L2 = English, Finnish, Danish, Swedish, Norvegian, Spanish
L3 = English, German, French, Hungarian, Csech, Russian
M1/2 = L1 + L2

# Spare parts list / Stückliste / Liste

## Mains module

| | | |
|---|---|---|
| | 4822 212 23664 | mains module |

### Mechanical parts

| | | |
|---|---|---|
| 0010⚠ | 4822 265 30389 | 2p male |
| 0032⚠ | 4822 265 30389 | 2p male |
| 0033⚠ | 4822 265 30877 | 3p male |

| | | |
|---|---|---|
| 2601⚠ | 4822 121 40487 | 100nF 10% 400V |
| 2602 | 4822 126 11141 | 2,2nF 10% 1KV |
| 2604 | 4822 126 11141 | 2,2nF 10% 1kV |

| | | |
|---|---|---|
| 3601⚠ | 4822 116 40211 | PTC/NTC |
| 3607 | 4822 050 23901 | 390Ω 1% 0,6W |

| | | |
|---|---|---|
| 5600⚠ | 4822 157 63073 | filter |

| | | |
|---|---|---|
| 6602 | 4822 130 31933 | 1N5061 |
| 6603 | 4822 130 31933 | 1N5061 |
| 6604 | 4822 130 31933 | 1N5061 |
| 6605 | 4822 130 31933 | 1N5061 |

## CRT module

| | | |
|---|---|---|
| [1] | 4822 212 30057 | CRT Black Matrix |
| [2] | 4822 212 30058 | CRT Black Line |
| [3] | 4822 212 30059 | CRT Mini Neck |
| [4] | 4822 212 30061 | CRT Narrow Neck |

### Mechanical parts

| | | |
|---|---|---|
| 0017 | 4822 290 40283 | 5p male |
| 0018 | 4822 267 40878 | 3p male |
| 0019 | 4822 265 30378 | 4p male |
| 0020 | 4822 290 40295 | 7p male |
| 0021[3] | 4822 255 70251 | CRT socket |
| 0021 | 4822 255 70261 | CRT socket |
| | 4822 320 20188 | focus cable |
| | 4822 267 31168 | 3p female |
| | 4822 267 50824 | 4p female |
| | 4822 265 40252 | 7p female |
| | 4822 290 40287 | 5p female |
| | 4822 492 70871 | spring |

| | | |
|---|---|---|
| 2301[4] | 4822 122 31769 | 18pF 5% 50V |
| 2301 | 4822 122 32482 | 22pF 5% 63V |
| 2301[2] | 4822 126 10324 | 33pF 63V |
| 2331[1] | 4822 122 31769 | 18pF 5% 50V |
| 2331[2] | 4822 122 31825 | 27pF 10% 50V |
| 2331[3] | 4822 122 32482 | 22pF 5% 63V |
| 2331[4] | 4822 122 32504 | 15pF 5% 50V |
| 2344[3] | 4822 124 21208 | 4,7µF 20% 50V |
| 2344 | 4822 124 40246 | 4,7µF 20% 63V |
| 2361[3] | 4822 122 31769 | 18pF 5% 50V |
| 2361[2] | 4822 122 31825 | 27pF 10% 50V |
| 2361[4] | 4822 122 32139 | 12pF 5% 63V |
| 2361[1] | 4822 122 32504 | 15pF 5% 50V |
| 2391 | 4822 121 43878 | 27pF 2% 500V |
| 2411 | 4822 124 80057 | 330µF 20% 16V |
| 2421 | 4822 122 32482 | 22pF 5% 63V |
| 2431 | 4822 121 41689 | 100nF 10% 250V |
| 2432[3] | 4822 124 80056 | 47µF 20% 16V |
| 2432 | 5322 124 41381 | 22µF 20% 50V |
| 2433 | 5322 121 50885 | 33nF 5% 1KV |
| 2434 | 5322 122 32334 | 220pF 10% 100V |
| 2520 | 5322 124 41299 | 68µF 20% 25V |
| 2521 | 4822 122 32891 | 68nF 10% 63V |
| 2522 | 5322 121 42661 | 330nF 5% 63V |
| 2523 | 4822 122 33105 | 56nF 10% 63V |
| 2526[2] | 4822 122 32856 | 8,2nF 10% 63V |
| 2526[1] | 5322 122 31648 | 12nF 10% 50V |
| 2531[4] | 4822 121 42408 | 220nF 5% 63V |
| 2531 | 4822 121 43396 | 120nF 5% 63V |
| 2532 | 4822 124 80066 | 1µF 20% 63V |
| 2532[4] | 4822 124 80067 | 4,7µF 20% 63V |
| 2533 | 4822 124 40242 | 1µF 20% 63V |

| | | |
|---|---|---|
| 3301 | 4822 051 10131 | 130Ω 2% 0,25W |
| 3302 | 4822 051 10362 | 3k6 2% 0,25W |
| 3302[2] | 4822 051 20222 | 2k2 5% 0,1W |
| 3303 | 4822 051 10272 | 2k7 2% 0,25W |
| 3304 | 4822 116 52239 | 120k 5% 0,5W |
| 3304 | 4822 116 52239 | 120k 5% 0,5W |
| 3309 | 4822 051 10118 | 1Ω1 5% 0,25W |
| 3309[2] | 4822 051 10479 | 47Ω 2% 0,25W |
| 3310 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3311[2] | 4822 053 12123 | 12k 5% 3W |
| 3311 | 4822 053 12153 | 15k 5% 3W |
| 3312 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3313 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3314 | 4822 050 21502 | 1k5 1% 0,6W |
| 3315 | 4822 051 10124 | 120k 2% 0,25W |
| 3316 | 4822 051 10124 | 120k 2% 0,25W |
| 3331 | 4822 051 10131 | 130Ω 2% 0,25W |
| 3332 | 4822 051 10362 | 3k6 2% 0,25W |
| 3332[2] | 4822 051 20222 | 2k2 5% 0,1W |
| 3333[3] | 4822 051 10272 | 2k7 2% 0,25W |
| 3333 | 4822 116 52263 | 2k 7 5% 0,5W |
| 3334 | 4822 116 52239 | 120k 5% 0,5W |
| 3338 | 4822 051 10118 | 1Ω1 5% 0,25W |
| 3338[3] | 4822 051 10479 | 47Ω 2% 0,25W |
| 3340 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3341 | 4822 053 12153 | 15k 5% 3W |
| 3342 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3343 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3344 | 4822 050 21502 | 1k5 1% 0,6W |
| 3345 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3361 | 4822 116 52208 | 130Ω 5% 0,5W |
| 3362 | 4822 051 10362 | 3k6 2% 0,25W |
| 3362[2] | 4822 051 20222 | 2k2 5% 0,1W |
| 3363 | 4822 051 10272 | 2k7 2% 0,25W |
| 3364 | 4822 051 10223 | 22k 2% 0,25W |
| 3368 | 4822 051 10118 | 1Ω1 5% 0,25W |
| 3368[2] | 4822 051 10479 | 47Ω 2% 0,25W |
| 3370 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3371[2] | 4822 053 12103 | 10k 5% 3W |
| 3371 | 4822 053 12153 | 15k 5% 3W |
| 3372 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3373 | 4822 052 10271 | 270Ω 5% 0,33W |
| 3374 | 4822 050 21502 | 1k5 1% 0,6W |
| 3382[2] | 4822 051 10392 | 3k9 2% 0,25W |
| 3382 | 4822 051 10432 | 4k3 2% 0,25W |
| 3383 | 4822 116 52284 | 47k 5% 0,5W |
| 3384 | 4822 116 52277 | 39k 5% 0,5W |
| 3385 | 4822 051 10104 | 100k 2% 0,25W |
| 3391 | 4822 116 52234 | 100k 5% 0,5W |
| 3392 | 4822 051 10103 | 10k 2% 0,25W |
| 3395 | 4822 051 10122 | 1k2 2% 0,25W |
| 3396 | 4822 051 10124 | 120k 2% 0,25W |
| 3397 | 4822 051 10124 | 120k 2% 0,25W |
| 3411 | 4822 116 52249 | 1k 8 5% 0,5W |
| 3413 | 4822 116 52218 | 300Ω 5% 0,5W |
| 3414 | 4822 051 10519 | 51Ω 2% 0,25W |
| 3415 | 4822 116 52218 | 300Ω 5% 0,5W |
| 3421[3] | 4822 051 10104 | 100k 2% 0,25W |
| 3421 | 4822 051 10184 | 180k 2% 0,25W |
| 3422 | 4822 051 10682 | 6k8 2% 0,25W |
| 3423 | 4822 051 10105 | 1M 5% 0,25W |
| 3431 | 4822 052 10181 | 180Ω 5% 0,33W |
| 3431[4] | 4822 052 10271 | 270Ω 5% 0,33W |
| 3432 | 4822 052 10399 | 39Ω 5% 0,33W |
| 3433 | 4822 052 10108 | 1Ω 5% 0,33W |
| 3434 | 4822 050 21502 | 1k5 1% 0,6W |
| 3435 | 4822 050 21502 | 1k5 1% 0,6W |
| 3436 | 4822 050 21805 | 1M 8 1% 0,6W |
| 3442 | 4822 116 52239 | 120k 5% 0,5W |
| 3443 | 4822 051 10272 | 2k7 2% 0,25W |
| 3446 | 4822 051 10683 | 68k 2% 0,25W |
| 3447 | 4822 051 10152 | 1k5 2% 0,25W |
| 3448 | 4822 051 10152 | 1k5 2% 0,25W |
| 3449 | 4822 051 10333 | 33k 2% 0,25W |
| 3449[2] | 4822 051 10393 | 39k 2% 0,25W |
| 3512[2] | 4822 051 10109 | 10Ω 2% 0,25W |
| 3512[1] | 4822 051 10181 | 180Ω 2% 0,25W |
| 3518[2] | 4822 051 10101 | 100Ω 2% 0,25W |
| 3518[1] | 4822 051 10152 | 1k5 2% 0,25W |
| 3520[1] | 4822 116 52207 | 1k 2 5% 0,5W |
| 3520[2] | 4822 116 52211 | 150Ω 5% 0,5W |
| 3521 | 4822 101 20902 | 4k 7 10% 0,05W |
| 3522 | 4822 051 10152 | 1k5 2% 0,25W |
| 3524 | 4822 051 10683 | 68k 2% 0,25W |

# Spare parts list / Stückliste / Liste

## CRT module

| | | |
|---|---|---|
| 3525[4] | 4822 100 20169 | 10k 10% 0,05W |
| 3525 | 4822 100 20644 | 22k 10% 0.05W |
| 3526 | 4822 051 10125 | 1M 2 5% 0,25W |
| 3526[4] | 4822 051 10563 | 56k 2% 0,25W |
| 3527[1] | 4822 051 10104 | 100k 2% 0,25W |
| 3527[3] | 4822 051 10563 | 56k 2% 0,25W |
| 3527[2] | 4822 051 10823 | 82k 2% 0,25W |
| 3528[3,4] | 4822 051 10681 | 680Ω 2% 0,25W |
| 3528 | 4822 051 20222 | 2k2 5% 0,1W |
| 3529 | 4822 051 10008 | jumper |
| 3529[3,4] | 4822 051 10102 | 1k 2% 0,25W |
| 3530[4] | 4822 051 10008 | jumper |
| 3530 | 4822 051 10102 | 1k 2% 0,25W |
| 3531[4] | 4822 051 10008 | jumper |
| 3531 | 4822 051 10104 | 100k 2% 0,25W |
| 3532 | 4822 051 10103 | 10k 2% 0,25W |
| 3533 | 4822 116 52303 | 8k 2 5% 0,5W |
| 3534 | 4822 052 10828 | 8Ω2 5% 0,33W |
| 3571 | 4822 051 10273 | 27k 2% 0,25W |
| 3572 | 4822 051 10153 | 15k 2% 0,25W |
| 3575 | 4822 051 10182 | 1k8 2% 0,25W |
| 3576[4] | 4822 051 10101 | 100Ω 2% 0,25W |
| 3576[1] | 4822 051 10151 | 150Ω 2% 0,25W |
| 3576[2] | 4822 051 51201 | 120Ω 1% 0,25W |
| 3578 | 4822 116 52245 | 150k 5% 0,5W |
| 3580 | 4822 051 10103 | 10k 2% 0,25W |

**Jumper**

| | | |
|---|---|---|
| 4001 | 4822 051 10008 | jumper |
| 4002 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5401[2,3] | 4822 156 20915 | 33µH |
| 5401[4] | 4822 157 63788 | 18µH 10% |
| 5401[1] | 4822 158 10563 | 82µH 7.5% |
| 5530 | 4822 152 20559 | |

| | | |
|---|---|---|
| 6301 | 4822 130 80877 | BAV103 |
| 6331 | 4822 130 80877 | BAV103 |
| 6345 | 4822 130 81015 | LLZ-C10 |
| 6361 | 4822 130 80877 | BAV103 |
| 6382 | 4822 130 80877 | BAV103 |
| 6411 | 4822 130 32831 | BZX79-F3V0 |
| 6421 | 4822 130 80446 | LL4148 |
| 6519 | 4822 130 80446 | LL4148 |

| | | |
|---|---|---|
| 7302[1,2] | 4822 130 41773 | BF869 |
| 7302[3,4] | 4822 130 41782 | BF422 |
| 7303 | 4822 130 61207 | BC848 |
| 7304 | 4822 130 41782 | BF422 |
| 7305 | 4822 130 41646 | BF423 |
| 7331[1,2] | 4822 130 41773 | BF869 |
| 7331[3,4] | 4822 130 41782 | BF422 |
| 7333 | 4822 130 61207 | BC848 |
| 7334 | 4822 130 41782 | BF422 |
| 7335 | 4822 130 41646 | BF423 |
| 7345 | 5322 130 42012 | BC858 |
| 7361[1,2] | 4822 130 41773 | BF869 |
| 7361[3,4] | 4822 130 41782 | BF422 |
| 7363 | 4822 130 61207 | BC848 |
| 7364 | 4822 130 41782 | BF422 |
| 7365 | 4822 130 41646 | BF423 |
| 7383 | 4822 130 41782 | BF422 |
| 7391 | 4822 130 41646 | BF423 |
| 7402▲ | 5322 130 41982 | BC848B |
| 7411 | 4822 130 40938 | BC548 |
| 7421 | 4822 130 42513 | BC858C |
| 7530▲[3] | 4822 130 61207 | BC848 |
| 7530 | 5322 130 41982 | BC848B |
| 7533 | 4822 130 60111 | 2SA1359 |
| 7534 | 4822 130 44283 | BC636 |
| 7536▲ | 5322 130 41982 | BC848B |
| 7537 | 5322 130 41982 | BC848B |
| 7538▲ | 5322 130 41982 | BC848B |

1) 25"/28" Black Matrix
2) 25"/28" Black Line
3) 21" Mini Neck
4) 21" Narrow Neck

## Euro module

| | | |
|---|---|---|
| 15 | 4822 212 30074 | Euro module ECO |
| 16 | 4822 212 30075 | Euro module PIP |

### Mechanical parts

| | | |
|---|---|---|
| 0023 | 4822 265 40442 | 10p male |
| 0026 | 4822 265 40442 | 10p male |
| 0030 | 4822 265 41086 | 9p male |
| 0032 | 4822 267 40666 | 3p male |
| 0048 | 4822 267 60247 | euro connector |
| 0100 | 4822 256 91879 | holder |
| 0050 | 4822 267 51084 | 9p female |
| 0051 | 4822 290 40285 | 3p female |

| | | |
|---|---|---|
| 2800 | 4822 121 51252 | 470nF 5% 63V |
| 2801 | 4822 121 51252 | 470nF 5% 63V |
| 2802 | 4822 121 51252 | 470nF 5% 63V |
| 2803 | 4822 121 51252 | 470nF 5% 63V |
| 2804 | 4822 122 33496 | 100nF 10% 63V |
| 2805 | 4822 122 33496 | 100nF 10% 63V |
| 2806 | 4822 122 33496 | 100nF 10% 63V |
| 2807 | 4822 124 41506 | 47µF 20% 16V |
| 2810 | 4822 122 32142 | 270pF 5% 63V |
| 2811 | 4822 122 32142 | 270pF 5% 63V |
| 2812 | 4822 122 33496 | 100nF 10% 63V |
| 2813 | 4822 122 32542 | 47nF 10% 63V |
| 2814 | 4822 122 31759 | 18nF |
| 2815 | 4822 122 33496 | 100nF 10% 63V |
| 2816 | 4822 122 33496 | 100nF 10% 63V |
| 2817 | 4822 122 33496 | 100nF 10% 63V |
| 2818 | 4822 122 33496 | 100nF 10% 63V |
| 2819 | 4822 124 41525 | 100µF 20% 25V |
| 2820 | 4822 121 42408 | 220nF 5% 63V |
| 2821 | 4822 124 40433 | 47µF 20% 25V |
| 2822 | 4822 124 40435 | 10µF 20% 50V |
| 2823 | 4822 122 33496 | 100nF 10% 63V |
| 2831 | 4822 124 40272 | 33µF 20% 16V |
| 2833 | 4822 122 33496 | 100nF 10% 63V |
| 2834 | 4822 122 33496 | 100nF 10% 63V |

| | | |
|---|---|---|
| 3800 | 4822 116 52189 | 30Ω 5% 0,5W |
| 3801 | 4822 116 80747 | 75Ω 5% 0,125W |
| 3802 | 4822 116 52211 | 150Ω 5% 0,5W |
| 3803 | 4822 116 52211 | 150Ω 5% 0,5W |
| 3804 | 4822 050 11002 | 1k 1% 0,4W |
| 3805 | 4822 050 11002 | 1k 1% 0,4W |
| 3806 | 4822 051 10334 | 330k 2% 0,25W |
| 3807 | 4822 051 10334 | 330k 2% 0,25W |
| 3808 | 4822 051 10334 | 330k 2% 0,25W |
| 3809 | 4822 051 10334 | 330k 2% 0,25W |
| 3810 | 4822 051 10682 | 6k8 2% 0,25W |
| 3811 | 4822 051 20222 | 2k2 5% 0,1W |
| 3812 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3813 | 4822 116 52201 | 75Ω 5% 0,5W |
| 3814 | 4822 051 10152 | 1k5 2% 0,25W |
| 3815 | 4822 051 10472 | 4k7 2% 0,25W |
| 3816 | 4822 116 52296 | 6k 8 5% 0,5W |
| 3817 | 4822 116 52224 | 470Ω 5% 0,5W |
| 3818 | 4822 116 52224 | 470Ω 5% 0,5W |
| 3819 | 4822 051 10008 | jumper |
| 3820 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3821 | 4822 051 10008 | jumper |
| 3822 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3823 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3824 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3825 | 4822 051 10223 | 22k 2% 0,25W |
| 3829 | 4822 051 10102 | 1k 2% 0,25W |
| 3830 | 4822 051 10683 | 68k 2% 0,25W |
| 3831 | 4822 051 10123 | 12k 2% 0,25W |

## Euro module

| | | |
|---|---|---|
| 3832 | 4822 051 10102 | 1k 2% 0,25W |
| 3833 | 4822 051 10279 | 27Ω 2% 0,25W |
| 3835[16] | 4822 051 10221 | 220Ω 2% 0,25W |
| 3836[15] | 4822 051 10102 | 1k 2% 0,25W |
| 3836 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3837 | 4822 052 10278 | 2Ω7 5% 0,33W |
| 3838 | 4822 116 80747 | 75Ω 5% 0,125W |

### Jumper

| | | |
|---|---|---|
| 4842 | 4822 051 10008 | jumper |
| 4844 | 4822 051 10008 | jumper |
| 4845 | 4822 051 10008 | jumper |
| 4847 | 4822 051 10008 | jumper |
| 4848 | 4822 051 10008 | jumper |
| 4849 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5800 | 4822 157 51462 | 10µH |

| | | |
|---|---|---|
| 6800 | 4822 130 80954 | LLZ-C5V6 |
| 6801 | 4822 130 80446 | LL4148 |
| 6803 | 4822 130 30621 | 1N4148 |

| | | |
|---|---|---|
| 7800 | 5322 130 44921 | BD943 |
| 7801 | 5322 209 10576 | 4053B |
| 7802 | 5322 209 10576 | 4053B |
| 7820 | 4822 130 61207 | BC848 |
| 7821 | 5322 130 42136 | BC848C |
| 7823 | 4822 130 61207 | BC848 |
| 7824 | 5322 130 42136 | BC848C |

15) Non PIP
16) PIP

## Mono IF/sound module

| | | |
|---|---|---|
| [5] | 4822 212 30064 | IF MONO BGDK |
| [6] | 4822 212 30065 | IF MONO BGLI |
| [7] | 4822 212 30066 | IF MONO BG |
| [8] | 4822 212 30067 | IF MONO I |

### Various

| | | |
|---|---|---|
| 1010[8] | 4822 242 70936 | OFW31952 |
| 1010[7] | 4822 242 72374 | OFWG1961 |
| 1010[6] | 4822 242 81156 | OFWG1965 |
| 1010[5] | 4822 242 81186 | OFWK2954 |
| 1042[8] | 4822 153 30025 | 6MHz |
| 1042 | 4822 242 72211 | 5,5MHz |
| 1043[6] | 4822 153 30025 | 6MHz |
| 1043[5] | 4822 242 71375 | 6,5MHz |
| 1043[8] | 4822 242 71841 | 6.0MHz |
| 1102 | 4822 242 70714 | 5,5MHz |
| 1103[6] | 4822 242 71841 | 6.0MHz |
| 1103[5] | 4822 242 72059 | 6,5MHz |
| 1150 | 4822 242 81157 | OFWL9453 |

| | | |
|---|---|---|
| 2011 | 4822 124 40435 | 10µF 20% 50V |
| 2012 | 4822 124 41577 | 4,7µF 20% 50V |
| 2013 | 4822 122 31784 | 4,7nF 10% 50V |
| 2014[6] | 4822 122 31784 | 4,7nF 10% 50V |
| 2014 | 4822 122 31797 | 22nF 10% 63V |
| 2015 | 5322 121 42498 | 680nF 5% 63V |
| 2016 | 4822 122 31784 | 4,7nF 10% 50V |
| 2017 | 4822 122 33496 | 100nF 10% 63V |
| 2018 | 4822 121 51252 | 470nF 5% 63V |
| 2019 | 4822 122 31784 | 4,7nF 10% 50V |
| 2035 | 4822 122 32507 | 6,8pF 5% 50V |
| 2036 | 4822 122 31766 | 120pF 5% 50V |
| 2037 | 4822 122 31766 | 120pF 5% 50V |
| 2038 | 4822 122 31784 | 4,7nF 10% 50V |
| 2039 | 4822 122 32504 | 15pF 5% 50V |
| 2040 | 4822 122 31784 | 4,7nF 10% 50V |
| 2041 | 4822 122 31784 | 4,7nF 10% 50V |
| 2042 | 4822 122 32139 | 12pF 5% 63V |
| 2044 | 4822 122 31797 | 22nF 10% 63V |
| 2047 | 4822 122 33496 | 100nF 10% 63V |
| 2048 | 4822 124 41506 | 47µF 20% 16V |
| 2049 | 4822 122 33496 | 100nF 10% 63V |
| 2050 | 4822 124 40849 | 330µF 20% 16V |
| 2055 | 4822 122 31972 | 39pF 5% 50V |
| 2056 | 4822 124 40435 | 10µF 20% 50V |
| 2057 | 4822 122 31981 | 33nF 50V |
| 2058 | 4822 122 31797 | 22nF 10% 63V |
| 2059 | 4822 124 41566 | 3,3µF 20% 50V |
| 2060 | 4822 122 31797 | 22nF 10% 63V |
| 2080 | 4822 122 33464 | 56pF 2% |
| 2081 | 4822 122 31794 | 180pF 2% 50V |
| 2082 | 4822 122 32087 | 1,8pF 5% 50V |
| 2113 | 4822 124 41596 | 22µF 20% 50V |
| 2114 | 4822 122 31784 | 4,7nF 10% 50V |
| 2115 | 4822 124 41577 | 4,7µF 20% 50V |
| 2116 | 4822 124 40435 | 10µF 20% 50V |
| 2117 | 4822 124 41576 | 2,2µF 20% 50V |
| 2118 | 4822 124 40432 | 1500µF 20% 25V |
| 2124 | 4822 122 32442 | 10nF 50V |
| 2125 | 4822 124 40195 | 150µF 20% 16V |
| 2126 | 4822 121 43898 | 8,2nF 10% 50V |
| 2127 | 5322 121 42661 | 330nF 5% 63V |
| 2129 | 5322 121 42661 | 330nF 5% 63V |
| 2130 | 5322 121 42661 | 330nF 5% 63V |
| 2131 | 4822 122 31797 | 22nF 10% 63V |
| 2132 | 4822 122 31797 | 22nF 10% 63V |
| 2133 | 4822 122 31797 | 22nF 10% 63V |
| 2134 | 4822 124 41596 | 22µF 20% 50V |
| 2135 | 4822 121 42408 | 220nF 5% 63V |
| 2136 | 5322 121 42661 | 330nF 5% 63V |
| 2137[7] | 4822 122 31746 | 1000pF 5% 50V |
| 2137 | 4822 126 11381 | 820pF 2% |
| 2137[5] | 4822 126 12075 | 680pF 2% 63V |
| 2138[6] | 4822 122 31771 | 390pF 5% 50V |
| 2138[5] | 4822 126 12154 | 560pF 2% 50V |
| 2139[5] | 4822 122 31771 | 390pF 5% 50V |
| 2139[6] | 4822 126 12155 | 1nF 2% 50V |
| 2141 | 4822 124 41577 | 4,7µF 20% 50V |
| 2143 | 4822 122 31797 | 22nF 10% 63V |
| 2150 | 4822 121 42408 | 220nF 5% 63V |
| 2151 | 4822 124 40195 | 150µF 20% 16V |
| 2160 | 4822 122 31784 | 4,7nF 10% 50V |

| | | |
|---|---|---|
| 3012 | 4822 051 10562 | 5k6 2% 0,25W |
| 3013 | 4822 051 10273 | 27k 2% 0,25W |
| 3014 | 4822 051 10823 | 82k 2% 0,25W |
| 3015[6] | 4822 051 10104 | 100k 2% 0,25W |
| 3015 | 4822 051 10473 | 47k 2% 0,25W |
| 3016 | 4822 100 11819 | 100k 30% 0,1W |
| 3017 | 4822 051 10823 | 82k 2% 0,25W |
| 3019 | 4822 051 10473 | 47k 2% 0,25W |
| 3020 | 4822 051 10273 | 27k 2% 0,25W |
| 3021 | 4822 051 10223 | 22k 2% 0,25W |
| 3030 | 4822 051 10223 | 22k 2% 0,25W |
| 3031 | 4822 051 10474 | 470k 2% 0,25W |
| 3036 | 4822 051 10472 | 4k7 2% 0,25W |
| 3037 | 4822 051 10392 | 3k9 2% 0,25W |
| 3038 | 4822 051 10472 | 4k7 2% 0,25W |
| 3039 | 4822 051 10392 | 3k9 2% 0,25W |
| 3040 | 4822 051 10472 | 4k7 2% 0,25W |
| 3041 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3042[6] | 4822 051 10101 | 100Ω 2% 0,25W |
| 3042[5] | 4822 051 10221 | 220Ω 2% 0,25W |
| 3042 | 4822 051 51201 | 120Ω 1% 0,25W |
| 3043 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3044 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3046 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3047 | 4822 051 10822 | 8k2 2% 0,25W |
| 3048 | 4822 101 11188 | 2k 30%LIN 0,1W |
| 3049 | 4822 051 20183 | 18k 5% 0,1W |
| 3050 | 4822 051 10272 | 2k7 2% 0,25W |
| 3051 | 4822 051 10563 | 56k 2% 0,25W |
| 3052[5,6] | 4822 051 10471 | 470Ω 2% 0,25W |
| 3052[7,8] | 4822 051 10561 | 560Ω 2% 0,25W |
| 3055 | 4822 051 10103 | 10k 2% 0,25W |
| 3056 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3058 | 4822 051 10682 | 6k8 2% 0,25W |
| 3060 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3061 | 4822 051 10333 | 33k 2% 0,25W |
| 3062 | 4822 051 10563 | 56k 2% 0,25W |
| 3063 | 4822 051 10272 | 2k7 2% 0,25W |
| 3064 | 4822 051 10563 | 56k 2% 0,25W |
| 3065 | 4822 051 10563 | 56k 2% 0,25W |
| 3066 | 4822 051 10824 | 820k 2% 0,25W |
| 3067 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3067[6] | 4822 051 20222 | 2k2 5% 0,1W |
| 3068 | 4822 051 10392 | 3k9 2% 0,25W |
| 3080[8] | 4822 051 10332 | 3k3 2% 0,25W |
| 3080[5] | 4822 051 10472 | 4k7 2% 0,25W |
| 3080[6] | 4822 051 10682 | 6k8 2% 0,25W |
| 3080[7] | 4822 051 20222 | 2k2 5% 0,1W |
| 3081 | 4822 051 10829 | 82Ω 2% 0,25W |
| 3104 | 4822 052 10479 | 47Ω 5% 0,33W |
| 3105 | 4822 053 11271 | 270Ω 5% 2W |
| 3107 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3108 | 4822 051 10333 | 33k 2% 0,25W |
| 3109 | 4822 051 10223 | 22k 2% 0,25W |

## Mono IF/sound module

| | | |
|---|---|---|
| 3110 | 4822 051 10562 | 5k6 2% 0,25W |
| 3111 | 4822 051 10562 | 5k6 2% 0,25W |
| 3112 | 4822 051 10472 | 4k7 2% 0,25W |
| 3113 | 4822 051 10562 | 5k6 2% 0,25W |
| 3115 | 4822 051 10562 | 5k6 2% 0,25W |
| 3116 | 4822 050 11002 | 1k 1% 0,4W |
| 3117 | 4822 051 10104 | 100k 2% 0,25W |
| 3118[5] | 4822 051 10332 | 3k3 2% 0,25W |
| 3118[6] | 4822 051 10472 | 4k7 2% 0,25W |
| 3118 | 4822 051 20222 | 2k2 5% 0,1W |
| 3119 | 4822 051 10472 | 4k7 2% 0,25W |
| 3120 | 4822 051 10472 | 4k7 2% 0,25W |
| 3121 | 4822 051 10104 | 100k 2% 0,25W |
| 3122 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3123[5,7] | 4822 051 10473 | 47k 2% 0,25W |
| 3123[6] | 4822 051 10563 | 56k 2% 0,25W |
| 3124 | 4822 051 10103 | 10k 2% 0,25W |
| 3125 | 4822 051 10103 | 10k 2% 0,25W |
| 3126 | 4822 051 10153 | 15k 2% 0,25W |
| 3127 | 4822 051 10153 | 15k 2% 0,25W |
| 3129 | 4822 051 10224 | 220k 2% 0,25W |
| 3130 | 4822 051 10682 | 6k8 2% 0,25W |
| 3131 | 4822 051 10102 | 1k 2% 0,25W |
| 3132 | 4822 051 10392 | 3k9 2% 0,25W |
| 3140 | 4822 051 10153 | 15k 2% 0,25W |
| 3141 | 4822 051 10392 | 3k9 2% 0,25W |
| 3142 | 4822 051 10273 | 27k 2% 0,25W |
| 3143 | 4822 051 10182 | 1k8 2% 0,25W |
| 3144 | 4822 051 10182 | 1k8 2% 0,25W |
| 3150 | 4822 051 10103 | 10k 2% 0,25W |
| 3151 | 4822 051 20222 | 2k2 5% 0,1W |
| 3152 | 4822 051 10103 | 10k 2% 0,25W |
| 3153 | 4822 051 10103 | 10k 2% 0,25W |
| 3154 | 4822 051 10103 | 10k 2% 0,25W |

Jumper

| | | |
|---|---|---|
| 4010.. 4102 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5010 | 4822 157 63081 | 0.56µH 20% |
| 5010[6] | 4822 157 63858 | 0,39µH |
| 5035 | 4822 157 53534 | 0,34µH 5% |
| 5036[6] | 4822 157 53609 | 0,36µH 5% |
| 5036 | 4822 157 63824 | 0,36µH 5% 38,9mH z |
| 5037 | 4822 157 53537 | 1,35µH 5% |
| 5038 | 4822 157 63076 | 1.2µH 5% |
| 5039 | 4822 157 52983 | 2N2 |
| 5041[5] | 4822 153 20251 | 18µH 10% |
| 5041[6] | 4822 157 52983 | 2N2 |
| 5041 | 4822 157 53001 | 27µH 10% |
| 5042[7,8] | 4822 152 20677 | |
| 5042[5,6] | 4822 157 53634 | 5,6µH 10% |
| 5080 | 4822 157 53539 | 0,27µH 5% |
| 5105 | 4822 157 52511 | 0,83µH |
| 5150 | 4822 157 62552 | |

| | | |
|---|---|---|
| 6036 | 4822 130 80446 | LL4148 |
| 6037 | 4822 130 80888 | BA682 |
| 6038 | 4822 130 80888 | BA682 |
| 6039 | 4822 130 30621 | 1N4148 |
| 6040 | 4822 130 80446 | LL4148 |
| 6041 | 4822 130 80446 | LL4148 |
| 6042 | 4822 130 80446 | LL4148 |
| 6043 | 4822 130 80446 | LL4148 |
| 6105 | 4822 130 80888 | BA682 |
| 6106 | 4822 130 80888 | BA682 |
| 6108 | 4822 130 80888 | BA682 |
| 6112 | 4822 130 80884 | LLZ-C5V1 |
| 6150 | 4822 130 80888 | BA682 |
| 6151 | 4822 130 80888 | BA682 |

| | | |
|---|---|---|
| 7000 | 4822 209 72812 | TDA2549/C4 |
| 7030 | 5322 130 42012 | BC858 |
| 7031 | 4822 130 61207 | BC848 |
| 7035 | 4822 130 44121 | BC338 |
| 7040 | 5322 130 42012 | BC858 |
| 7041 | 4822 130 61207 | BC848 |
| 7100 | 4822 209 63105 | TDA3843/V3 |
| 7101 | 4822 209 30278 | TDA3827/V3 |
| 7102 | 4822 130 61207 | BC848 |
| 7103 | 5322 130 42136 | BC848C |
| 7104 | 5322 130 41982 | BC848B |
| 7150 | 4822 130 61207 | BC848 |
| 7151 | 4822 130 61207 | BC848 |

5) system BGBK
6) system BGLI
7) system BG
8) system I

## Stereo IF/sound module

| | | |
|---|---|---|
| [7] | 4822 212 30069 | IF STEREO BG |
| [6] | 4822 212 30072 | IF STEREO BGLI |
| [5] | 4822 212 30073 | IF STEREO BGDK |

### Various

| | | |
|---|---|---|
| 1010[7] | 4822 242 72554 | OFWG3254 |
| 1010[5] | 4822 242 73936 | OFWK3255 |
| 1010[6] | 4822 242 80205 | OFWK3261 |
| 1042 | 4822 242 72211 | 5,5MHz |
| 1101 | 4822 242 70485 | 5,74MHz |
| 1102[6] | 4822 242 71713 | 6,0MHz |
| 1102[5] | 4822 242 72057 | 6,5MHz |
| 1103 | 4822 242 70714 | 5,5MHz |
| 1150 | 4822 242 81157 | OFWL9453 |
| 1200 | 4822 242 80208 | 10MHz |

| | | |
|---|---|---|
| 2011 | 4822 124 41506 | 47µF 20% 16V |
| 2012 | 4822 124 41577 | 4,7µF 20% 50V |
| 2013 | 4822 122 31784 | 4,7nF 10% 50V |
| 2014 | 4822 122 31797 | 22nF 10% 63V |
| 2015 | 5322 121 42498 | 680nF 5% 63V |
| 2016 | 4822 122 31784 | 4,7nF 10% 50V |
| 2017 | 4822 122 33496 | 100nF 10% 63V |
| 2018 | 4822 121 51252 | 470nF 5% 63V |
| 2035 | 4822 122 32506 | 5,6pF 5% 50V |
| 2036 | 4822 122 31784 | 4,7nF 10% 50V |
| 2037 | 4822 122 31784 | 4,7nF 10% 50V |
| 2038 | 4822 122 33496 | 100nF 10% 63V |
| 2039 | 4822 122 32083 | 8,2pF 5% 50V |
| 2040 | 4822 122 31784 | 4,7nF 10% 50V |
| 2041 | 4822 122 31784 | 4,7nF 10% 50V |
| 2042 | 4822 122 32139 | 12pF 5% 63V |
| 2044 | 4822 122 31797 | 22nF 10% 63V |
| 2047 | 4822 122 33496 | 100nF 10% 63V |
| 2048 | 4822 124 41506 | 47µF 20% 16V |
| 2049 | 4822 122 33496 | 100nF 10% 63V |
| 2050 | 4822 124 40849 | 330µF 20% 16V |
| 2051 | 4822 122 33496 | 100nF 10% 63V |
| 2055 | 4822 122 31972 | 39pF 5% 50V |
| 2056 | 4822 124 41576 | 2,2µF 20% 50V |
| 2057 | 4822 122 31981 | 33nF 50V |
| 2058 | 4822 122 31797 | 22nF 10% 63V |
| 2059 | 4822 124 41407 | 0,47µF 20% 63V |
| 2080 | 4822 122 33464 | 56pF 2% |
| 2081 | 4822 122 31794 | 180pF 2% 50V |
| 2113 | 4822 124 40435 | 10µF 20% 50V |
| 2114 | 4822 122 32442 | 10nF 50V |
| 2115 | 4822 124 41509 | 33µF 20% 35V |
| 2117 | 4822 124 41576 | 2,2µF 20% 50V |
| 2118 | 4822 124 41576 | 2,2µF 20% 50V |
| 2119 | 4822 122 31797 | 22nF 10% 63V |
| 2120 | 4822 124 41576 | 2,2µF 20% 50V |
| 2123 | 4822 124 40242 | 1µF 20% 63V |
| 2123[6] | 4822 124 41577 | 4,7µF 20% 50V |
| 2124 | 4822 124 41576 | 2,2µF 20% 50V |
| 2125 | 4822 122 10527 | 910pF 2% 50V |
| 2126 | 4822 122 31784 | 4,7nF 10% 50V |
| 2127 | 4822 122 31746 | 1000pF 5% 50V |
| 2127[7] | 4822 126 11381 | 820pF 2% |
| 2127[6] | 4822 126 12075 | 680pF 2% 63V |
| 2128[5] | 4822 122 10527 | 910pF 2% 50V |
| 2128 | 4822 126 11381 | 820pF 2% |
| 2129[6] | 4822 122 31727 | 470pF 5% 63V |
| 2129[5] | 4822 122 33476 | 220pF 2% 50V |
| 2130[6] | 4822 124 40195 | 150µF 20% 16V |
| 2133 | 4822 122 31797 | 22nF 10% 63V |
| 2160 | 4822 122 31784 | 4,7nF 10% 50V |
| 2200 | 4822 121 51252 | 470nF 5% 63V |

## Stereo IF/sound module

| | | |
|---|---|---|
| 2201 | 4822 121 51252 | 470nF 5% 63V |
| 2202 | 4822 121 51252 | 470nF 5% 63V |
| 2203 | 4822 122 31916 | 5,6nF 10% 63V |
| 2204 | 4822 121 42408 | 220nF 5% 63V |
| 2205 | 4822 122 31947 | 100nF 20% 63V |
| 2206 | 4822 121 51252 | 470nF 5% 63V |
| 2207 | 4822 121 51252 | 470nF 5% 63V |
| 2208 | 4822 124 41509 | 33µF 20% 35V |
| 2209 | 4822 124 41509 | 33µF 20% 35V |
| 2210 | 4822 122 31947 | 100nF 20% 63V |
| 2211 | 4822 124 40198 | 470µF 20% 16V |
| 2212 | 4822 124 40435 | 10µF 20% 50V |
| 2213 | 4822 122 31782 | 15nF 10% 50V |
| 2214 | 4822 122 31782 | 15nF 10% 50V |
| 2215 | 4822 122 31981 | 33nF 50V |
| 2216 | 4822 122 31916 | 5,6nF 10% 63V |
| 2217 | 4822 122 31981 | 33nF 50V |
| 2218 | 4822 122 31916 | 5,6nF 10% 63V |
| 2219 | 4822 124 41577 | 4,7µF 20% 50V |
| 2220 | 5322 121 42498 | 680nF 5% 63V |
| 2221 | 5322 121 42498 | 680nF 5% 63V |
| 2222 | 4822 124 41643 | 100µF 20% 16V |
| 2223 | 5322 122 31647 | 1nF 10% 63V |

| | | |
|---|---|---|
| 3012 | 4822 051 10562 | 5k6 2% 0,25W |
| 3013 | 4822 051 10273 | 27k 2% 0,25W |
| 3014 | 4822 051 10823 | 82k 2% 0,25W |
| 3015 | 4822 116 52234 | 100k 5% 0,5W |
| 3016 | 4822 100 11819 | 100k 30% 0,1W |
| 3017 | 4822 051 10823 | 82k 2% 0,25W |
| 3019 | 4822 051 10473 | 47k 2% 0,25W |
| 3020 | 4822 051 10273 | 27k 2% 0,25W |
| 3021 | 4822 051 20183 | 18k 5% 0,1W |
| 3030 | 4822 051 10223 | 22k 2% 0,25W |
| 3031 | 4822 051 10474 | 470k 2% 0,25W |
| 3035 | 4822 051 10682 | 6k8 2% 0,25W |
| 3036 | 4822 051 10472 | 4k7 2% 0,25W |
| 3037 | 4822 051 10392 | 3k9 2% 0,25W |
| 3038 | 4822 051 10472 | 4k7 2% 0,25W |
| 3039 | 4822 051 10472 | 4k7 2% 0,25W |
| 3040 | 4822 051 10472 | 4k7 2% 0,25W |
| 3041 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3042 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3042 | 4822 051 51201 | 120Ω 1% 0,25W |
| 3043 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3044 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3046 | 4822 116 52228 | 680Ω 5% 0,5W |
| 3047 | 4822 051 10822 | 8k2 2% 0,25W |
| 3048 | 4822 101 11188 | 2k 30%LIN 0,1W |
| 3049 | 4822 051 20183 | 18k 5% 0,1W |
| 3050 | 4822 051 10272 | 2k7 2% 0,25W |
| 3051 | 4822 051 10563 | 56k 2% 0,25W |
| 3052 | 4822 051 10102 | 1k 2% 0,25W |
| 3053 | 4822 116 52233 | 10k 5% 0,5W |
| 3055 | 4822 051 10103 | 10k 2% 0,25W |
| 3056 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3058 | 4822 051 10472 | 4k7 2% 0,25W |
| 3060 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3061 | 4822 051 10124 | 120k 2% 0,25W |
| 3062 | 4822 051 10563 | 56k 2% 0,25W |
| 3063 | 4822 051 10272 | 2k7 2% 0,25W |
| 3064 | 4822 051 10224 | 220k 2% 0,25W |
| 3065 | 4822 051 10124 | 120k 2% 0,25W |
| 3066 | 4822 051 10824 | 820k 2% 0,25W |
| 3081 | 4822 051 10569 | 56Ω 2% 0,25W |
| 3105 | 4822 053 11121 | 120Ω 5% 2W |
| 3106 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3107 | 4822 051 10102 | 1k 2% 0,25W |
| 3108 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3109 | 4822 051 10562 | 5k6 2% 0,25W |
| 3110 | 4822 051 10562 | 5k6 2% 0,25W |
| 3112 | 4822 051 10562 | 5k6 2% 0,25W |
| 3113 | 4822 051 10562 | 5k6 2% 0,25W |
| 3115[5] | 4822 051 10301 | 300Ω 2% 0,25W |
| 3115 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3117[6] | 4822 051 10561 | 560Ω 2% 0,25W |
| 3117 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3119 | 4822 051 10562 | 5k6 2% 0,25W |
| 3120 | 4822 051 10562 | 5k6 2% 0,25W |
| 3121[5] | 4822 051 10272 | 2k7 2% 0,25W |
| 3121[6] | 4822 051 10562 | 5k6 2% 0,25W |
| 3122 | 4822 051 10122 | 1k2 2% 0,25W |
| 3123 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3124 | 4822 051 10008 | jumper |
| 3125 | 4822 051 10102 | 1k 2% 0,25W |
| 3126 | 4822 051 10102 | 1k 2% 0,25W |
| 3127 | 4822 051 10152 | 1k5 2% 0,25W |
| 3128 | 4822 051 10182 | 1k8 2% 0,25W |
| 3150 | 4822 051 10103 | 10k 2% 0,25W |
| 3151 | 4822 051 20222 | 2k2 5% 0,1W |
| 3152 | 4822 051 10103 | 10k 2% 0,25W |
| 3153 | 4822 051 10103 | 10k 2% 0,25W |
| 3154 | 4822 051 10103 | 10k 2% 0,25W |
| 3200 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3201 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3202 | 4822 051 10563 | 56k 2% 0,25W |
| 3203 | 4822 051 10563 | 56k 2% 0,25W |
| 3204 | 4822 101 11191 | 10k 30% 0.1W |
| 3205 | 4822 052 10229 | 22Ω 5% 0,33W |
| 3206 | 4822 051 10478 | 4Ω7 5% 0,25W |
| 3207 | 4822 051 10223 | 22k 2% 0,25W |
| 3208 | 4822 051 10272 | 2k7 2% 0,25W |
| 3209 | 4822 051 10333 | 33k 2% 0,25W |
| 3210 | 4822 050 11002 | 1k 1% 0,4W |
| 3211 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3213 | 4822 116 52233 | 10k 5% 0,5W |
| 3214 | 4822 051 10102 | 1k 2% 0,25W |
| 3215 | 4822 051 10102 | 1k 2% 0,25W |
| 3216 | 4822 051 10101 | 100Ω 2% 0,25W |

**Jumper**

| | | |
|---|---|---|
| 4010.. 4205 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5010 | 4822 157 53302 | |
| 5010[6] | 4822 157 61898 | |
| 5035 | 4822 157 53534 | 0,34µH 5% |
| 5036[6] | 4822 157 53609 | 0,36µH 5% |
| 5036 | 4822 157 63824 | 0,36µH 5% |
| 5037 | 4822 157 53537 | 1,35µH 5% |
| 5038 | 4822 157 63076 | 1.2µH 5% |
| 5039 | 4822 152 20678 | 33µH 10% |
| 5080 | 4822 157 53539 | 0,27µH 5% |
| 5103 | 4822 157 52511 | 0,83µH |
| 5104 | 4822 157 63077 | 0.25µH 5% |
| 5105 | 4822 157 52511 | 0,83µH |
| 5042 | 4822 157 53634 | 5,6µH 10% |
| 5042[6] | 4822 157 62767 | |
| 5150 | 4822 157 63845 | 2,7µH |

| | | |
|---|---|---|
| 6037 | 4822 130 80888 | BA682 |
| 6038 | 4822 130 80888 | BA682 |
| 6039 | 4822 130 30621 | 1N4148 |
| 6040 | 4822 130 80446 | LL4148 |
| 6041 | 4822 130 80446 | LL4148 |
| 6042 | 4822 130 80446 | LL4148 |
| 6043 | 4822 130 80446 | LL4148 |
| 6106 | 4822 130 80888 | BA682 |
| 6107 | 4822 130 80888 | BA682 |
| 6108 | 4822 130 80888 | BA682 |
| 6109 | 4822 130 80446 | LL4148 |
| 6150 | 4822 130 80888 | BA682 |
| 6151 | 4822 130 80888 | BA682 |
| 6220 | 4822 130 81015 | LLZ-C10 |

| | | |
|---|---|---|
| 7000 | 4822 209 72812 | TDA2549/C4 |
| 7030 | 5322 130 42012 | BC858 |
| 7031 | 4822 130 61207 | BC848 |
| 7035 | 4822 130 44121 | BC338 |
| 7040 | 5322 130 42012 | BC858 |
| 7100 | 4822 209 63059 | TDA3856/V3 |
| 7101 | 4822 209 63784 | TDA3857/V3 |
| 7102 | 4822 130 61207 | BC848 |
| 7104 | 4822 130 61207 | BC848 |
| 7150 | 4822 130 61207 | BC848 |
| 7151 | 4822 130 61207 | BC848 |
| 7200 | 4822 209 63967 | TDA8417/V3 |
| 7220 | 4822 209 63734 | TDA8425/V7 |
| 7232 | 5322 130 41982 | BC848B |
| 7233 | 4822 130 42513 | BC858C |

5) system BGDK
6) system BGLI
7) system BG

## Nicam IF/sound module

| | | |
|---|---|---|
| [7] | 4822 212 30071 | IF NICAM BG |
| [8] | 4822 212 30068 | IF NICAM I |

### Various

| | | |
|---|---|---|
| 1010[7] | 4822 242 72554 | OFWG3254 |
| 1010[8] | 4822 242 72553 | OFWJ3251 |
| 1042[7] | 4822 242 72211 | 5,5MWHz |
| 1042[8] | 4822 153 30025 | 6MHz |
| 1100 | 4822 242 70485 | 5,74MHz |
| 1105[7] | 4822 242 70714 | 5,5MHz |
| 1105[8] | 4822 242 71713 | 6,0MHz |
| 1116[7] | 4822 242 72301 | TH316BOM-20800DAF |
| 1116[8] | 4822 242 72303 | TH316BQM |
| 1127[7] | 4822 242 81187 | 11.7MHz |
| 1127[8] | 4822 242 81188 | 13.104MHz |
| 1138 | 4822 242 81189 | 17.472MHz |
| 1191 | 4822 071 54001 | fuse T400mA |
| 1200 | 4822 242 80208 | 10MHz |

### ⊣⊢

| | | |
|---|---|---|
| 2011 | 4822 124 41506 | 47µF 20% 16V |
| 2012 | 4822 124 41577 | 4,7µF 20% 50V |
| 2013 | 4822 122 31797 | 22nF 10% 63V |
| 2014 | 4822 122 31797 | 22nF 10% 63V |
| 2015 | 5322 121 42498 | 680nF 5% 63V |
| 2016 | 4822 122 31784 | 4,7nF 10% 50V |
| 2017 | 4822 122 33496 | 100nF 10% 63V |
| 2042 | 4822 122 32139 | 12pF 5% 63V |
| 2044 | 4822 122 31797 | 22nF 10% 63V |
| 2047 | 4822 122 33496 | 100nF 10% 63V |
| 2049 | 4822 122 33496 | 100nF 10% 63V |
| 2050 | 4822 124 40849 | 330µF 20% 16V |
| 2071 | 4822 122 31972 | 39pF 5% 50V |
| 2072 | 4822 124 40435 | 10µF 20% 50V |
| 2073 | 4822 122 31981 | 33nF 50V |
| 2075 | 4822 122 31797 | 22nF 10% 63V |
| 2076 | 4822 124 41407 | 0,47µF 20% 63V |
| 2077 | 4822 122 31916 | 5,6nF 10% 63V |
| 2100 | 4822 124 40242 | 1µF 20% 63V |
| 2101 | 4822 122 31746 | 1000pF 5% 50V |
| 2102 | 4822 122 31746 | 1000pF 5% 50V |
| 2102 | 4822 122 32765 | 820pF 10% 63V |
| 2104 | 4822 122 31784 | 4,7nF 10% 50V |
| 2106 | 4822 124 41576 | 2,2µF 20% 50V |
| 2107 | 4822 124 41576 | 2,2µF 20% 50V |
| 2108 | 4822 122 32862 | 10nF 80% 50V |
| 2109 | 4822 124 41509 | 33µF 20% 35V |
| 2110 | 4822 122 31947 | 100nF 20% 63V |
| 2116 | 5322 122 31647 | 1nF 10% 63V |
| 2119 | 4822 124 40198 | 470µF 20% 16V |
| 2122 | 4822 122 32862 | 10nF 80% 50V |
| 2123 | 4822 122 31768 | 180pF 5% 50V |
| 2124 | 4822 122 31768 | 180pF 5% 50V |
| 2125 | 4822 122 32597 | 6,8nF 10% 63V |
| 2126 | 5322 122 31647 | 1nF 10% 63V |
| 2127 | 5322 122 31647 | 1nF 10% 63V |
| 2128 | 4822 122 31808 | 150pF 10% 50V |
| 2129 | 4822 122 32862 | 10nF 80% 50V |
| 2130 | 4822 122 31808 | 150pF 10% 50V |
| 2131 | 4822 122 31766 | 120pF 5% 50V |
| 2132 | 4822 122 32862 | 10nF 80% 50V |
| 2133 | 4822 121 41854 | 150nF 5% 63V |
| 2134 | 5322 122 31647 | 1nF 10% 63V |
| 2135 | 4822 122 32862 | 10nF 80% 50V |
| 2136 | 4822 122 31808 | 150pF 10% 50V |
| 2137 | 4822 122 31947 | 100nF 20% 63V |
| 2138 | 4822 122 32862 | 10nF 80% 50V |
| 2140 | 4822 121 42408 | 220nF 5% 63V |
| 2141 | 4822 122 31784 | 4,7nF 10% 50V |
| 2143 | 5322 122 31647 | 1nF 10% 63V |
| 2150 | 4822 122 32863 | 22nF 80% 50V |
| 2151 | 4822 124 41506 | 47µF 20% 16V |
| 2160 | 4822 122 31765 | 100pF 5% 50V |
| 2161 | 4822 122 31765 | 100pF 5% 50V |
| 2168 | 4822 122 31947 | 100nF 20% 63V |
| 2169 | 4822 124 41506 | 47µF 20% 16V |
| 2170[7] | 4822 122 31782 | 15nF 10% 50V |
| 2170[8] | 4822 122 31916 | 5,6nF 10% 63V |
| 2171[7] | 4822 122 31981 | 33nF 50V |
| 2171[8] | 5322 122 31648 | 12nF 10% 50V |
| 2173 | 4822 122 31773 | 560pF 5% 50V |
| 2174 | 4822 122 33498 | 2,7nF 10% 63V |
| 2175 | 4822 122 32999 | 2,2N 5% |
| 2176 | 4822 121 51252 | 470nF 5% 63V |
| 2177 | 4822 122 32863 | 22nF 80% 50V |
| 2180[7] | 4822 122 31782 | 15nF 10% 50V |
| 2180[8] | 4822 122 31916 | 5,6nF 10% 63V |
| 2181 | 5322 122 31648 | 12nF 10% 50V |
| 2181 | 4822 122 31981 | 33nF 50V |
| 2183 | 4822 122 31773 | 560pF 5% 50V |
| 2184 | 4822 122 33498 | 2,7nF 10% 63V |
| 2185 | 4822 122 32999 | 2,2nF 5% |
| 2186 | 4822 121 51252 | 470nF 5% 63V |
| 2187 | 4822 122 32863 | 22nF 80% 50V |
| 2188 | 4822 124 41506 | 47µF 20% 16V |
| 2189 | 4822 122 32863 | 22nF 80% 50V |
| 2190 | 4822 122 31947 | 100nF 20% 63V |
| 2191 | 4822 124 41643 | 100µF 20% 16V |
| 2193 | 4822 124 40849 | 330µF 20% 16V |
| 2194 | 4822 122 31947 | 100nF 20% 63V |
| 2198 | 4822 121 51252 | 470nF 5% 63V |
| 2200 | 4822 121 51252 | 470nF 5% 63V |
| 2201 | 4822 121 51252 | 470nF 5% 63V |
| 2202 | 4822 122 31766 | 120pF 5% 50V |
| 2203 | 4822 124 41509 | 33µF 20% 35V |
| 2204 | 4822 124 41509 | 33µF 20% 35V |
| 2205 | 4822 122 31947 | 100nF 20% 63V |
| 2207 | 4822 121 51252 | 470nF 5% 63V |
| 2209 | 4822 121 51252 | 470nF 5% 63V |
| 2210 | 4822 124 41577 | 4,7µF 20% 50V |
| 2211 | 4822 121 42408 | 220nF 5% 63V |
| 2213 | 4822 124 40195 | 150µF 20% 16V |
| 2214 | 4822 122 31947 | 100nF 20% 63V |
| 2215 | 4822 124 41506 | 47µF 20% 16V |
| 2216 | 4822 122 31981 | 33nF 50V |
| 2217 | 5322 121 42498 | 680nF 5% 63V |
| 2218 | 4822 124 41643 | 100µF 20% 16V |
| 2219 | 5322 121 42498 | 680nF 5% 63V |
| 2220 | 4822 122 31916 | 5,6nF 10% 63V |
| 2223 | 4822 122 31916 | 5,6nF 10% 63V |
| 2224 | 4822 122 31981 | 33nF 50V |
| 2225 | 4822 122 31782 | 15nF 10% 50V |
| 2226 | 4822 122 31782 | 15nF 10% 50V |

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| | | |
|---|---|---|
| 3012 | 4822 051 10562 | 5k6 2% 0,25W |
| 3013 | 4822 051 10273 | 27k 2% 0,25W |
| 3014 | 4822 051 10823 | 82k 2% 0,25W |
| 3015 | 4822 051 10104 | 100k 2% 0,25W |
| 3016 | 4822 100 11819 | 100k 30% 0,1W |
| 3019 | 4822 051 10473 | 47k 2% 0,25W |
| 3020 | 4822 051 10273 | 27k 2% 0,25W |
| 3021 | 4822 051 20183 | 18k 5% 0,1W |
| 3030 | 4822 051 10223 | 22k 2% 0,25W |
| 3035 | 4822 051 10472 | 4k7 2% 0,25W |
| 3041 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3042[7] | 4822 051 10151 | 150Ω 2% 0,25W |
| 3042[8] | 4822 051 10101 | 100Ω 2% 0,25W |
| 3044 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3047 | 4822 050 21001 | 100Ω 1% 0,6W |
| 3052 | 4822 051 10102 | 1k 2% 0,25W |
| 3055 | 4822 051 10103 | 10k 2% 0,25W |
| 3056 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3058 | 4822 051 10682 | 6k8 2% 0,25W |
| 3071 | 4822 051 10124 | 120k 2% 0,25W |
| 3072 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3073 | 4822 051 10824 | 820k 2% 0,25W |
| 3074 | 4822 051 10563 | 56k 2% 0,25W |
| 3075 | 4822 051 10272 | 2k7 2% 0,25W |
| 3076 | 4822 051 10224 | 220k 2% 0,25W |
| 3077 | 4822 051 10124 | 120k 2% 0,25W |
| 3078 | 4822 051 10102 | 1k 2% 0,25W |
| 3079 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3100 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3101 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3102 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3105 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3106 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3107 | 4822 051 10122 | 1k2 2% 0,25W |
| 3108 | 4822 051 20222 | 2k2 5% 0,1W |
| 3109 | 4822 053 11121 | 120Ω 5% 2W |
| 3110 | 4822 051 10102 | 1k 2% 0,25W |
| 3116 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3122 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3123 | 4822 051 10332 | 3k3 2% 0,25W |
| 3124 | 4822 051 10332 | 3k3 2% 0,25W |
| 3125 | 4822 051 10223 | 22k 2% 0,25W |
| 3127 | 4822 051 10104 | 100k 2% 0,25W |
| 3128 | 4822 051 10223 | 22k 2% 0,25W |
| 3129 | 4822 051 10103 | 10k 2% 0,25W |
| 3130 | 4822 051 10223 | 22k 2% 0,25W |
| 3131 | 4822 051 10392 | 3k9 2% 0,25W |
| 3133 | 4822 051 10333 | 33k 2% 0,25W |
| 3134 | 4822 051 10103 | 10k 2% 0,25W |
| 3135 | 4822 051 10103 | 10k 2% 0,25W |
| 3136 | 4822 051 10104 | 100k 2% 0,25W |
| 3137 | 4822 051 10104 | 100k 2% 0,25W |
| 3138 | 4822 051 10105 | 1M 5% 0,25W |
| 3139 | 4822 051 10273 | 27k 2% 0,25W |
| 3140 | 4822 051 10824 | 820k 2% 0,25W |
| 3141 | 4822 051 10152 | 1k5 2% 0,25W |
| 3142 | 4822 051 10103 | 10k 2% 0,25W |
| 3143 | 4822 051 10102 | 1k 2% 0,25W |
| 3150 | 4822 052 10278 | 2Ω7 5% 0,33W |
| 3158 | 4822 051 10473 | 47k 2% 0,25W |
| 3159 | 4822 051 10473 | 47k 2% 0,25W |
| 3160 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3161 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3168 | 4822 052 10278 | 2Ω7 5% 0,33W |
| 3170[7] | 4822 051 10682 | 6k8 2% 0,25W |
| 3170[8] | 4822 051 20183 | 18k 5% 0,1W |
| 3171[7] | 4822 051 10122 | 1k2 2% 0,25W |
| 3171[8] | 4822 051 10332 | 3k3 2% 0,25W |
| 3172 | 4822 051 10472 | 4k7 2% 0,25W |
| 3173 | 4822 051 10472 | 4k7 2% 0,25W |
| 3177[7] | 4822 051 10682 | 6k8 2% 0,25W |
| 3177[8] | 4822 051 10472 | 4k7 2% 0,25W |
| 3180[7] | 4822 051 10682 | 6k8 2% 0,25W |
| 3180[8] | 4822 051 20183 | 18k 5% 0,1W |
| 3181[7] | 4822 051 10122 | 1k2 2% 0,25W |
| 3181[8] | 4822 051 10332 | 3k3 2% 0,25W |
| 3182 | 4822 051 10472 | 4k7 2% 0,25W |
| 3183 | 4822 051 10472 | 4k7 2% 0,25W |
| 3188 | 4822 052 10109 | 10Ω 5% 0,33W |
| 3190 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3200 | 4822 101 11191 | 10k 30% 0.1W |
| 3201 | 4822 051 10822 | 8k2 2% 0,25W |
| 3202 | 4822 051 10512 | 5k1 2% 0,25W |
| 3203 | 4822 051 10563 | 56k 2% 0,25W |
| 3204 | 4822 051 10563 | 56k 2% 0,25W |

# Spare parts list / Stückliste / Liste

## Nicam IF/sound module

| | | |
|---|---|---|
| 3205 | 4822 052 10229 | 22Ω 5% 0,33W |
| 3206 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3208 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3209 | 4822 051 10103 | 10k 2% 0,25W |
| 3210 | 4822 051 10102 | 1k 2% 0,25W |
| 3213 | 4822 051 10478 | 4Ω7 5% 0,25W |
| 3214 | 4822 051 10223 | 22k 2% 0,25W |
| 3215 | 4822 051 10272 | 2k7 2% 0,25W |
| 3216 | 4822 051 10333 | 33k 2% 0,25W |
| 3217 | 4822 051 10102 | 1k 2% 0,25W |
| 3218 | 4822 051 10101 | 100Ω 2% 0,25W |

**Jumper**

| | | |
|---|---|---|
| 4000[7] | 4822 051 10393 | 39k 2% 0,25W |
| 4000[8] | 4822 051 10392 | 3k9 2% 0,25W |

| | | |
|---|---|---|
| 5010 | 4822 157 53302 | |
| 5035 | 4822 157 53534 | 0,34µH 5% |
| 5036 | 4822 157 63824 | 0,36µH 5% |
| 5042 | 4822 157 62767 | |
| 5042 | 4822 157 53634 | 5,6µH 10% |
| 5101 | 4822 157 52511 | 0,83µH |
| 5102 | 4822 157 52511 | 0,83µH |
| 5103 | 4822 157 63077 | 0.25µH 5% |
| 5123 | 4822 157 50975 | 1 mH |
| 5124 | 4822 157 50975 | 1 mH |

| | | |
|---|---|---|
| 6070 | 4822 130 80446 | LL4148 |
| 6071 | 4822 130 80446 | LL4148 |
| 6072 | 4822 130 80446 | LL4148 |
| 6075 | 4822 130 80446 | LL4148 |
| 6127 | 5322 130 34953 | BB405B |
| 6134 | 5322 130 31684 | BB809 |
| 6140 | 4822 130 80446 | LL4148 |
| 6190 | 4822 130 80446 | LL4148 |
| 6191 | 4822 130 80954 | LLZ-C5V6 |
| 6225 | 4822 130 81015 | LLZ-C10 |

| | | |
|---|---|---|
| 7000 | 4822 209 72812 | TDA2549/C4 |
| 7035 | 4822 130 44121 | BC338 |
| 7073 | 5322 130 42012 | BC858 |
| 7078 | 4822 130 42513 | BC858C |
| 7100 | 4822 209 63784 | TDA3857/V3 |
| 7106 | 4822 130 61207 | BC848 |
| 7108 | 5322 130 42012 | BC858 |
| 7120 | 4822 209 30909 | TDA8732/C1 |
| 7133 | 4822 130 61207 | BC848 |
| 7150 | 4822 209 30914 | SAA7280/M2 |
| 7160 | 4822 130 61207 | BC848 |
| 7161 | 4822 130 61207 | BC848 |
| 7168 | 4822 209 73236 | TDA1543/N2 |
| 7170 | 4822 209 83163 | LM833N |
| 7180 | 4822 209 83163 | LM833N |
| 7190 | 5322 130 41983 | BC858B |
| 7191 | 4822 130 44121 | BC338 |
| 7200 | 4822 209 30147 | TDA8415 |
| 7213 | 4822 209 63734 | TDA8425/V7 |
| 7217▲ | 5322 130 41982 | BC848B |

7) BG

8) I

## TXT module

| | | |
|---|---|---|
| 9 | 4822 212 30062 | IVT TXT europe |
| 10 | 4822 212 30063 | IVT TXT nordic |
| 11 | 4822 212 30076 | TXT spain |
| 12 | 4822 212 30077 | TXT east-europe |
| 13 | 4822 212 30078 | TXT europe |
| 14 | 4822 212 30079 | TXT nordic |

**Connectors**

| | | |
|---|---|---|
| | 4822 265 40469 | BTB AU 6P |
| | 4822 265 40471 | BTB AU 8P |

**Various**

| | | |
|---|---|---|
| 1800 | 4822 242 81191 | 27MHz |
| 1820 | 4822 242 71508 | 6MHz |
| 1870 | 4822 071 53151 | Fuse 315mA |

| | | |
|---|---|---|
| 2801 | 4822 122 31797 | 22nF 10% 63V |
| 2802 | 4822 122 31746 | 1000pF 5% 50V |
| 2803 | 4822 122 31774 | 56pF 5% 50V |
| 2804 | 4822 122 32504 | 15pF 5% 50V |
| 2805 | 4822 122 33496 | 100nF 10% 63V |
| 2806 | 4822 122 33496 | 100nF 10% 63V |
| 2807 | 4822 122 33496 | 100nF 10% 63V |
| 2808 | 4822 122 33496 | 100nF 10% 63V |
| 2810 | 4822 122 33496 | 100nF 10% 63V |
| 2820 | 4822 122 32504 | 15pF 5% 50V |
| 2820[11] | 4822 126 10324 | 33pF 63V |
| 2821 | 4822 122 32504 | 15pF 5% 50V |
| 2821[11] | 4822 126 10324 | 33pF 63V |
| 2823 | 4822 122 33496 | 100nF 10% 63V |
| 2825 | 4822 122 31772 | 47pF 5% 50V |
| 2826 | 4822 122 31772 | 47pF 5% 50V |
| 2830 | 4822 122 33496 | 100nF 10% 63V |
| 2832 | 4822 122 33496 | 100nF 10% 63V |
| 2833 | 4822 122 33496 | 100nF 10% 63V |
| 2834 | 4822 124 40435 | 10µF 20% 50V |
| 2836 | 4822 122 31965 | 220pF 5% 63V |
| 2850 | 4822 122 33496 | 100nF 10% 63V |
| 2860 | 4822 122 31825 | 27pF 10% 50V |
| 2861 | 4822 122 33496 | 100nF 10% 63V |
| 2862 | 4822 122 31774 | 56pF 5% 50V |
| 2863 | 4822 122 33496 | 100nF 10% 63V |
| 2870 | 4822 124 41643 | 100µF 20% 16V |
| 2871 | 4822 124 41506 | 47µF 20% 16V |
| 2872 | 4822 124 40272 | 33µF 20% 16V |

| | | |
|---|---|---|
| 3802 | 4822 051 10273 | 27k 2% 0,25W |
| 3803 | 4822 051 10103 | 10k 2% 0,25W |
| 3804 | 4822 051 10122 | 1k2 2% 0,25W |
| 3805 | 4822 051 10122 | 1k2 2% 0,25W |
| 3806 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3809 | 4822 116 52176 | 10Ω 5% 0,5W |
| 3810 | 4822 116 52207 | 1k 2 5% 0,5W |
| 3811 | 4822 051 10122 | 1k2 2% 0,25W |
| 3812 | 4822 051 10122 | 1k2 2% 0,25W |
| 3813 | 4822 051 10122 | 1k2 2% 0,25W |
| 3814 | 4822 051 10122 | 1k2 2% 0,25W |
| 3815 | 4822 116 52207 | 1k 2 5% 0,5W |
| 3816 | 4822 116 52207 | 1k 2 5% 0,5W |
| 3817 | 4822 051 10122 | 1k2 2% 0,25W |
| 3818 | 4822 051 10122 | 1k2 2% 0,25W |
| 3819 | 4822 051 10122 | 1k2 2% 0,25W |
| 3820 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3821 | 4822 051 10102 | 1k 2% 0,25W |
| 3822 | 4822 051 10103 | 10k 2% 0,25W |
| 3823 | 4822 051 10105 | 1M 5% 0,25W |
| 3824 | 4822 051 20222 | 2k2 5% 0,1W |
| 3825 | 4822 051 20222 | 2k2 5% 0,1W |
| 3826 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3827 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3830 | 4822 051 10829 | 82Ω 2% 0,25W |
| 3831 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3832 | 4822 051 10102 | 1k 2% 0,25W |
| 3833 | 4822 051 10102 | 1k 2% 0,25W |
| 3834 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3835 | 4822 051 10103 | 10k 2% 0,25W |
| 3836 | 4822 051 10473 | 47k 2% 0,25W |
| 3837 | 4822 051 10102 | 1k 2% 0,25W |
| 3838 | 4822 051 10473 | 47k 2% 0,25W |
| 3839 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3840 | 4822 051 10228 | 2Ω2 5% 0,25W |
| 3842 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3850 | 4822 116 52206 | 120Ω 5% 0,5W |
| 3851 | 4822 051 10102 | 1k 2% 0,25W |
| 3852 | 4822 051 10102 | 1k 2% 0,25W |
| 3853 | 4822 116 52206 | 120Ω 5% 0,5W |
| 3854 | 4822 051 10102 | 1k 2% 0,25W |
| 3855 | 4822 051 10102 | 1k 2% 0,25W |
| 3856 | 4822 116 52206 | 120Ω 5% 0,5W |
| 3857 | 4822 051 10102 | 1k 2% 0,25W |
| 3858 | 4822 051 10102 | 1k 2% 0,25W |
| 3860 | 4822 051 10272 | 2k7 2% 0,25W |
| 3861 | 4822 051 10562 | 5k6 2% 0,25W |
| 3862 | 4822 051 10333 | 33k 2% 0,25W |
| 3863 | 4822 051 10223 | 22k 2% 0,25W |
| 3864 | 4822 051 10103 | 10k 2% 0,25W |
| 3865 | 4822 051 10392 | 3k9 2% 0,25W |
| 3866 | 4822 051 10272 | 2k7 2% 0,25W |
| 3867 | 4822 116 52206 | 120Ω 5% 0,5W |
| 3868 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3869 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3870 | 4822 050 24701 | 470Ω 1% 0,6W |
| 3871 | 4822 050 22201 | 220Ω 1% 0,6W |
| 3872 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3873 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3874 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3890[9] | 4822 051 10102 | 1k 2% 0,25W |
| 3890[13] | 4822 051 10103 | 10k 2% 0,25W |
| 3890[14] | 4822 051 10153 | 15k 2% 0,25W |
| 3890[10] | 4822 051 10272 | 2k7 2% 0,25W |
| 3890[11] | 4822 051 10562 | 5k6 2% 0,25W |
| 3890[12] | 4822 051 10822 | 8k2 2% 0,25W |

**Jumper**

| | | |
|---|---|---|
| 4801.. 4862 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5800 | 4822 157 53302 | |
| 5801 | 4822 152 20677 | |
| 5834 | 4822 157 53001 | 27µH 10% |
| 5870 | 4822 157 51157 | 3.3µH |

| | | |
|---|---|---|
| 6800 | 4822 130 82921 | LLZ-F3V9 |
| 6840 | 4822 130 80446 | LL4148 |
| 6850 | 4822 130 80446 | LL4148 |
| 6851 | 4822 130 80446 | LL4148 |
| 6852 | 4822 130 80446 | LL4148 |
| 6860 | 4822 130 80446 | LL4148 |
| 6870 | 4822 130 80905 | LLZ-F5V1 |
| 6871 | 4822 130 81227 | LLZ-F5V6 |

| | | |
|---|---|---|
| 7800 | 4822 209 31214 | SAA5246P/E |
| 7800[12] | 4822 209 31215 | SAA5246P/H |
| 7810 | 4822 209 61805 | HY6264P-15 |
| 7810[11] | 4822 209 72681 | MSM5165AL-12RS |
| 7820[12] | 4822 209 30281 | PCF84C81A/097 |

# Spare parts list / Stückliste / Liste

## TXT module

| | | |
|---|---|---|
| 7820[9,10] | 4822 209 31069 | PCF84C81A/098 |
| 7820[11] | 4822 209 62479 | MAB8461/W196 |
| 7821 | 4822 130 61207 | BC848 |
| 7822 | 4822 130 61207 | BC848 |
| 7831 | 4822 130 42513 | BC858C |
| 7833 | 5322 130 42136 | BC848C |
| 7850 | 5322 130 42136 | BC848C |
| 7851 | 5322 130 42136 | BC848C |
| 7852 | 5322 130 42136 | BC848C |
| 7860 | 4822 130 61207 | BC848 |
| 7861 | 5322 130 60159 | BC846B |
| 7862 | 5322 130 42136 | BC848C |
| 7863 | 4822 130 61207 | BC848 |
| 7870 | 4822 130 41344 | BC337-40 |
| 7871 | 5322 130 42012 | BC858 |
| 7872 | 4822 130 41344 | BC337-40 |

9) IVT Europe BGLI
10) IVT Nordic
11) CCT Spain
12) CCT Europe BGDK
13) CCT Europa BGLI
14) CCT Nordic

## PIP module

| | | |
|---|---|---|
| | 4822 212 23605 | PIP module |

### Connectors

| | | |
|---|---|---|
| | 4822 265 30828 | 5p female |
| | 4822 265 40472 | 10p female |
| | 4822 265 40503 | 5p male |

### Various

| | | |
|---|---|---|
| 1155 | 4822 320 40051 | delay line DL711 |
| 1201 | 4822 242 70304 | 8,867238 MHz |
| 1212 | 4822 242 70736 | 7,159090 MHz |

### ⊣⊢

| | | |
|---|---|---|
| 2103 | 4822 122 32444 | 33pF 5% 50V |
| 2105 | 4822 122 31766 | 120pF 5% 50V |
| 2118 | 4822 122 31775 | 680pF 5% 50V |
| 2119 | 4822 122 31808 | 150pF 10% 50V |
| 2120 | 4822 122 31807 | 1200pF 5% 50V |
| 2125 | 4822 122 32863 | 22nF 80% 50V |
| 2155 | 4822 122 32862 | 10nF 80% 50V |
| 2158 | 4822 122 32862 | 10nF 80% 50V |
| 2160 | 4822 124 40242 | 1µF 20% 63V |
| 2161 | 4822 124 41576 | 2,2µF 20% 50V |
| 2162 | 4822 122 32893 | 100nF 80% 50V |
| 2171 | 4822 122 31961 | 68pF 5% 63V |
| 2172 | 4822 126 11175 | 22pF 5% 50V |
| 2176 | 4822 126 11175 | 22pF 5% 50V |
| 2177 | 4822 122 31961 | 68pF 5% 63V |
| 2180 | 4822 122 31768 | 180pF 5% 50V |
| 2181 | 4822 122 31768 | 180pF 5% 50V |
| 2185 | 4822 122 32863 | 22nF 80% 50V |
| 2187 | 4822 122 32863 | 22nF 80% 50V |
| 2189 | 4822 122 31746 | 1000pF 5% 50V |
| 2196 | 4822 122 32893 | 100nF 80% 50V |
| 2197 | 4822 122 31385 | 22pF 50V |
| 2201 | 4822 122 31746 | 1000pF 5% 50V |
| 2202 | 4822 125 50045 | 20pF |
| 2211 | 4822 122 31746 | 1000pF 5% 50V |
| 2212 | 4822 125 50045 | 20pF |
| 2220 | 5322 121 42661 | 330nF 5% 63V |
| 2222 | 4822 122 32542 | 47nF 10% 63V |
| 2227 | 5322 122 31842 | 330pF 5% 63V |
| 2230 | 4822 124 40242 | 1µF 20% 63V |
| 2232 | 4822 124 41678 | 22µF 20% 25V |
| 2234 | 4822 122 33496 | 100nF 10% 63V |
| 2235 | 4822 124 41578 | 6,8µF 20% 50V |
| 2238 | 4822 121 42937 | 2,7nF 1% 250V |
| 2239 | 4822 122 32893 | 100nF 80% 50V |
| 2250 | 4822 121 51115 | 270nF 10% 63V |
| 2251 | 5322 122 31647 | 1nF 10% 63V |
| 2255 | 4822 122 31766 | 120pF 5% 50V |
| 2260 | 4822 122 32893 | 100nF 80% 50V |
| 2270 | 4822 122 32893 | 100nF 80% 50V |
| 2340 | 4822 124 41506 | 47µF 20% 16V |
| 2345 | 4822 124 41506 | 47µF 20% 16V |
| 2350 | 4822 124 40849 | 330µF 20% 16V |
| 2351 | 4822 124 41643 | 100µF 20% 16V |
| 2380 | 4822 122 32927 | 220nF |
| 2381 | 4822 122 32927 | 220nF |
| 2382 | 4822 122 32927 | 220nF |
| 2383 | 4822 122 32927 | 220nF |
| 2384 | 4822 122 32927 | 220nF |
| 2385 | 4822 122 32927 | 220nF |
| 2390 | 4822 122 32893 | 100nF 80% 50V |
| 2399 | 4822 122 31746 | 1000pF5%50V |
| 2404 | 4822 122 31965 | 220pF 5% 63V |
| 2405 | 4822 122 32862 | 10nF 80% 50V |
| 2409 | 4822 122 31965 | 220pF 5% 63V |
| 2410 | 4822 122 32862 | 10nF 80% 50V |
| 2413 | 4822 122 31765 | 100pF 5% 50V |
| 2414 | 4822 122 32862 | 10nF 80% 50V |
| 2415 | 4822 122 31965 | 220pF 5% 63V |
| 2430 | 4822 122 32893 | 100nF 80% 50V |
| 2432 | 4822 122 32893 | 100nF 80% 50V |
| 2434 | 4822 122 32893 | 100nF 80% 50V |
| 2438 | 4822 121 42472 | 10nF 10% 50V |
| 2439 | 4822 121 41856 | 22nF 5% 250V |
| 2440 | 4822 122 31965 | 220pF 5% 63V |
| 2441 | 4822 122 31727 | 470pF 5% 63V |
| 2442 | 4822 124 40242 | 1µF 20% 63V |
| 2446 | 4822 122 32893 | 100nF 80% 50V |
| 2448 | 4822 122 32893 | 100nF 80% 50V |
| 2450 | 4822 122 32856 | 8,2nF 10% 63V |
| 2455 | 4822 122 31972 | 39pF 5% 50V |
| 2459 | 4822 124 41997 | 470µF 10V |
| 2466 | 4822 122 32893 | 100nF 80% 50V |

### ⊣□⊢

| | | |
|---|---|---|
| 2444 | 4822 051 10224 | 220k 2% 0,25W |
| 3103 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3104 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3105 | 4822 051 10362 | 3k6 2% 0,25W |
| 3106 | 4822 116 52233 | 10k 5% 0,5W |
| 3107 | 4822 051 10103 | 10k 2% 0,25W |
| 3108 | 4822 051 10103 | 10k 2% 0,25W |
| 3155 | 4822 051 10391 | 390Ω 2% 0,25W |
| 3156 | 4822 051 10122 | 1k2 2% 0,25W |
| 3157 | 4822 100 11391 | 330Ω 30% LIN |
| 3158 | 4822 051 10759 | 75Ω 2% 0,25W |
| 3170 | 4822 051 10112 | 1k1 2% 0,25W |
| 3175 | 4822 051 10621 | 620Ω 2% 0,25W |
| 3196 | 4822 050 11002 | 1k 1% 0,4W |
| 3200 | 4822 051 10103 | 10k 2% 0,25W |
| 3201 | 4822 051 10103 | 10k 2% 0,25W |
| 3202 | 4822 051 10103 | 10k 2% 0,25W |
| 3211 | 4822 051 10103 | 10k 2% 0,25W |
| 3212 | 4822 051 10103 | 10k 2% 0,25W |
| 3214 | 4822 051 10102 | 1k 2% 0,25W |
| 3220 | 4822 051 10512 | 5k1 2% 0,25W |
| 3221 | 4822 116 52233 | 10k 5% 0,5W |
| 3222 | 4822 051 10008 | jumper |
| 3227 | 4822 116 52299 | 7k5 5% 0,5W |
| 3228 | 4822 051 10472 | 4k7 2% 0,25W |
| 3231 | 4822 051 10682 | 6k8 2% 0,25W |
| 3232 | 4822 051 10229 | 22Ω 2% 0,25W |
| 3233 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3234 | 4822 051 10361 | 360Ω 2% 0,25W |
| 3235 | 4822 051 10122 | 1k2 2% 0,25W |
| 3236 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3237 | 4822 051 10332 | 3k3 2% 0,25W |
| 3238 | 4822 051 10333 | 33k 2% 0,25W |
| 3239 | 4822 100 11319 | 4k7 30% LIN |
| 3241 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3242 | 4822 050 11002 | 1k 1% 0,4W |
| 3250 | 4822 051 10911 | 910Ω 2% 0,25W |
| 3265 | 4822 051 10104 | 100k 2% 0,25W |
| 3270 | 4822 051 10103 | 10k 2% 0,25W |
| 3275 | 4822 051 10103 | 10k 2% 0,25W |
| 3276 | 4822 051 10102 | 1k 2% 0,25W |
| 3330 | 4822 051 20008 | 0Ω 5% 0,1W |
| 3335 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3336 | 4822 051 10432 | 4k3 2% 0,25W |
| 3337 | 4822 051 10122 | 1k2 2% 0,25W |
| 3338 | 4822 051 10332 | 3k3 2% 0,25W |
| 3340 | 4822 051 10202 | 2k 2% 0,25W |
| 3341 | 4822 052 10229 | 22Ω 5% 0,33W |
| 3345 | 4822 052 10229 | 22Ω 5% 0,33W |
| 3353 | 4822 052 10568 | 5Ω6 5% 0,33W |

# Spare parts list / Stückliste / Liste

## PIP module

| | | |
|---|---|---|
| 3354 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3390 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3391 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3394 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3395 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3398 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3399 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3404 | 4822 051 10431 | 430Ω 2% 0,25W |
| 3405 | 4822 051 10361 | 360Ω 2% 0,25W |
| 3410 | 4822 051 10391 | 390Ω 2% 0,25W |
| 3411 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3412 | 4822 051 10751 | 750Ω 2% 0,25W |
| 3414 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3416 | 4822 051 10182 | 1k8 2% 0,25W |
| 3434 | 4822 051 10473 | 47k 2% 0,25W |
| 3436 | 4822 051 10473 | 47k 2% 0,25W |
| 3437 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3438 | 4822 051 10513 | 51k 2% 0,25W |
| 3440 | 4822 116 52222 | 390Ω 5% 0,5W |
| 3441 | 4822 051 10519 | 51Ω 2% 0,25W |
| 3442 | 4822 051 10919 | 91Ω 2% 0,25W |
| 3444 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3446 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3448 | 4822 051 10392 | 3k9 2% 0,25W |
| 3450 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3452 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3454 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3460 | 4822 116 52231 | 820Ω 5% 0,5W |
| 3461 | 4822 116 52259 | 2k4 5% 0,5W |
| 3462 | 4822 051 10333 | 33k 2% 0,25W |
| 3463 | 4822 116 52299 | 7k5 5% 0,5W |
| 3464 | 4822 051 10472 | 4k7 2% 0,25W |
| 3470 | 4822 052 10108 | 1Ω 5% 0,33W |
| 3618 | 4822 052 10568 | 5Ω6 5% 0,33W |
| 3621 | 4822 051 10105 | 1M 5% 0,25W |
| 3997 | 4822 051 10339 | 33Ω 2% 0,25W |
| 3997 | 4822 051 10279 | 27Ω 2% 0,25W |

**Jumper**

| | | |
|---|---|---|
| 4001.. 4415 | 4822 051 10008 | jumper |

| | | |
|---|---|---|
| 5118 | 4822 157 60435 | 10,3µH 6% |
| 5155 | 4822 157 60433 | 7,2µH 6% |
| 5157 | 4822 157 60434 | 9,4µH 6% |
| 5170 | 4822 157 60432 | 10,3µH |
| 5175 | 4822 157 60432 | 10,3µH |
| 5190 | 4822 157 60432 | 10,3µH |
| 5400 | 4822 157 50943 | 12µH 10% |
| 5402 | 4822 157 50943 | 12µH 10% |
| 5403 | 4822 157 52333 | 100µH 10% |
| 5406 | 4822 157 50943 | 12µH 10% |
| 5408 | 4822 157 50943 | 12µH 10% |
| 5410 | 4822 157 50943 | 12µH 10% |

| | | |
|---|---|---|
| 6300 | 4822 130 80906 | LLZ-C7V5 |

| | | |
|---|---|---|
| 7103 | 5322 130 41982 | BC848B |
| 7105 | 5322 130 41982 | BC848B |
| 7125 | 4822 209 63927 | TDA4554/V1 |
| 7126 | 4822 209 30389 | TDA4510/V8 |
| 7200 | 5322 130 41982 | BC848B |
| 7210 | 5322 130 41982 | BC848B |
| 7233 | 5322 130 41983 | BC858B |
| 7234 | 5322 130 41982 | BC848B |
| 7335 | 5322 130 41982 | BC848B |
| 7337 | 5322 130 41982 | BC848B |
| 7338 | 5322 130 41982 | BC848B |
| 7350 | 4822 130 42616 | BC818-40 |
| 7380 | 4822 209 60479 | TEA5114A |
| 7400 | 5322 130 41983 | BC858B |
| 7402 | 5322 130 41983 | BC858B |
| 7404 | 5322 130 41983 | BC858B |
| 7406 | 4822 209 62473 | SDA9087 |
| 7408 | 4822 209 63291 | SDA9088/2Ω |
| 7410 | 4822 209 63644 | SDA9086-3 |
| 7755 | 4822 209 72363 | TDA2579A/N8 |

## Control module DAS

| | | |
|---|---|---|
| [17] | 4822 212 30036 | control module |
| [18] | 4822 212 30029 | control module |

**Connectors**

| | | |
|---|---|---|
| ▲ | 4822 265 30384 | mains K11 |
| ▲ | 4822 265 40596 | mains K25 |
| | 4822 264 40207 | 3p male |
| | 4822 265 30951 | 4p male |

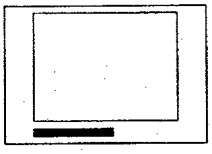
**Various**

| | | |
|---|---|---|
| ▲ | 4822 276 12597 | Mains switch |
| | 4822 267 31014 | Headphone socket |
| | 4822 276 50354 | Swith assembly |
| | 4822 212 23667 | IR receiver GP1U52YP |
| | 4822 209 72895 | LED TLUV5320 |
| | 4822 256 91766 | LED holder |

| | | |
|---|---|---|
| 2233 | 4822 121 43526 | 47nF 5% 100V |
| 2234 | 4822 121 43526 | 47nF 5% 100V |
| 2713 | 5322 124 21189 | 100µF 20% 40V |

| | | |
|---|---|---|
| 3246 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3247 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3248 | 4822 116 52219 | 330Ω 5% 0,5W |
| 3249 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3729 | 4822 116 52232 | 910Ω 5% 0,5W |
| 3730 | 4822 116 52215 | 220Ω 5% 0,5W |
| 3775 | 4822 116 52175 | 100Ω 5% 0,5W |
| 3776[17] | 4822 116 52264 | 5K6 5% 0,5W |
| 3776[18] | 4822 116 52289 | 27K 5% 0,5W |
| 3777[17] | 4822 116 52289 | 27K 5% 0,5W |
| 3777[18] | 4822 116 52264 | 5K6 5% 0,5W |
| 3778[17] | 4822 116 52233 | 56K 5% 0,5W |
| 3778[18] | 4822 116 52291 | 10K 5% 0,5W |
| 3779[17] | 4822 116 52291 | 10K 5% 0,5W |
| 3779[18] | 4822 116 52233 | 56K 5% 0,5W |

17)



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